RAILWAY AGE

The Standard Railroad WEEKLYEEN most a Century

IN THIS ISSUE

New High-Capacity

All-Service Diesel

Grading Machines
Clean Long Ditches

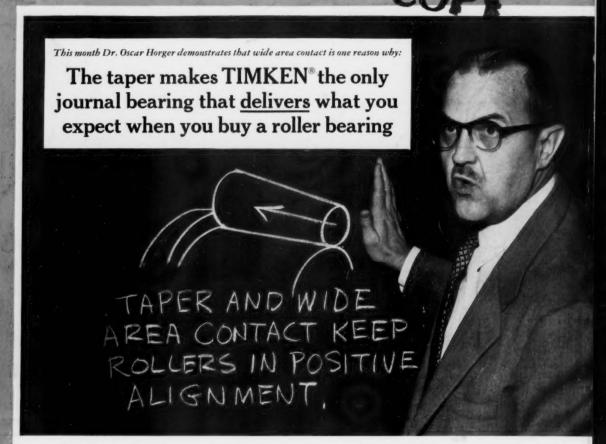
Operating Revenues

And Expenses

15 mg

Ratio of Net
To Gross

Licensing Fees
For I.C.C.?



YOU put roller bearings on railroad journals to end the hot box problem and cut operating and maintenance costs to a minimum. The Timken® tapered roller bearing is the one bearing you can count on to end the hot box problem and reduce costs. It's the taper! Here's why:

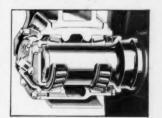
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2) No lateral movement within the bearing. Roller bearings are made to roll—not slide. In straight roller bearings, lateral movement pumps lubricant through the seal and out of the journal box, draws dirt and water in. Lateral movement also causes scuffing of rollers and races, shortens bearing life.

And it makes auxiliary devices necessary to carry thrust. These are hard to lubricate, require extra maintenance. In Timken bearings, the taper prevents lateral movement, permits them to take thrust loads. There's no pumping action, no scuffing.

Get what you pay for when you switch to roller bearings to end the hot box problem and

cut operating and maintenance costs to a minimum. Get Timken tapered roller bearings. The Timken Roller Bearing Company, Canton 6, Ohio. Cable address: "TIMROSCO".



THE TAPER MAKES

TIMKEN

THE BEARING YOU TRUST

NOT JUST A BALL 🕥 NOT JUST A ROLLER 🗆 THE TIMKEN TAPERED ROLLER 🗆 BEARING TAKES RADIAL 🖞 AND THRUST - 🕦 -- LOADS OR ANY COMBINATION - 🗓



... from 1200 hp. yard switchers to the newest in motive power, the 2400 horsepower Train Master, the world's most useful locomotive.



RAIL CARS

.. that have the extra capacity for full crew and tools, the power to do the heavier jobs faster . . . and with greater safety.



... for dependable off-rail power requirements from 5 to 3600 horsepower. Also, portable lights for signaling, emergency work, and B&B crews.

vherever you go by rail you find the FAIRBANKS-MORSE seal of quality on ...



PUMPS

... for fuel oil transfer, up to largecapacity types that drain off flood waters.



SCALES

... platform and beam types for weighing small shipments, to large track scales that weigh ore a trainload at a time.



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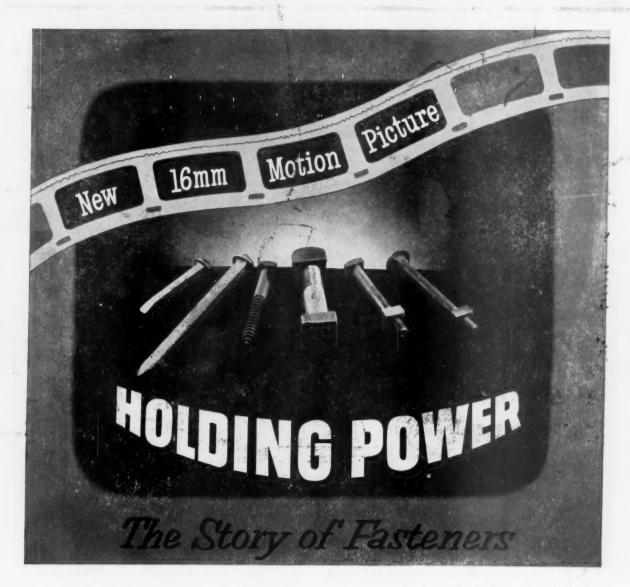
... in locomotives, passenger cars, in the shops and stations, helping to turn the many wheels that are the railroad industry.

in all industry ... for more than 120 years it's



A FAIRBANKS-MORSE

a name worth remembering when you want the best



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"Holding Power" is in color, with sound. It is on 16mm film, and has a running time of approximately 25 minutes.

"Holding Power" is an ideal film for showing to distributors, consumers, and others closely associated with fasteners. It is also an interesting, highly educational picture for general audiences. There is no charge, except for the return postage. If you would like a print for showing, fill out the coupon, selecting a date well in advance, and mail it to Publications Department, Bethlehem Steel Company, Bethlehem, Pa.

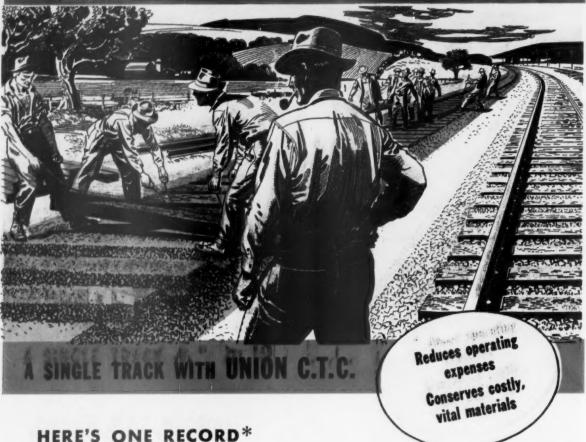
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Export Distributor: Bethlehem Steel Export Corporation



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E	BETHLEHEM, PA.
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l	Approximate date wanted
S	end Print to This Address
-	
2	Name of Company of Organization



- HERE'S ONE RECORD*
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- 2. Reduced annual operating expenses \$39,229.00 per year.
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RAILWAY AGE

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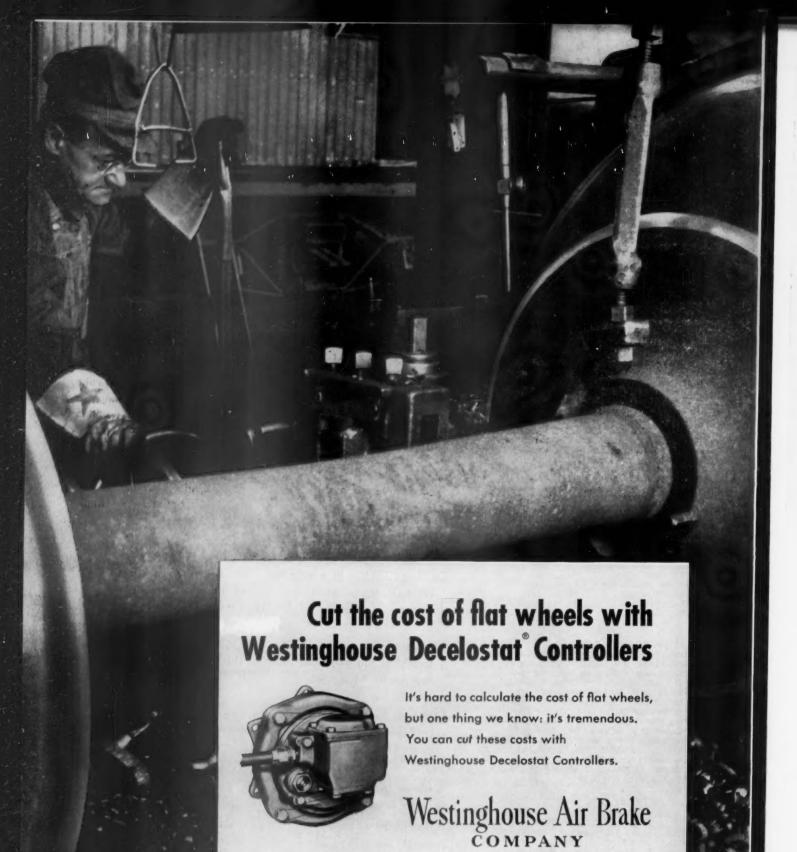
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March 1, 1954

Vol. 136, No. 9

Week at a Glance

- A schedule of licensing fees which would cost the nation's carriers about \$1,750,000 for filing various types of applications, has been proposed by the I.C.C. 8
- Kentucky Derby trips by railroad officers in business cars with guests now have a formal frown from the I.C.C. In its report on past Norfolk Southern practices, the commission said such use of railway equipment and carrier funds "is not consistent with the type of management contemplated by section 15a(2) of the Interstate Commerce Act."
- The railroads' gross doubled, but net operating income increased only 11 per cent, in the period between 1941 and 1953, according to the latest "Monthly Comment" of an I.C.C. bureau.
- To clean ditches in a long cut, the Toledo, Peoria & Western made successful use of off track grading machines.
- Allocation of responsibility for loss and damage to freight is the principal topic in this week's Questions and Answers page.
- FORUM: Economics of car supply is an inter-railroad problem which seems not to be receiving attention commensurate with its importance.
- A high-capacity, all-service diesel, rated at 2,250 hp., is the latest addition to the Alco line.
- New 169-seat commuter cars 16 double deckers are now under construction for the Chicago & North Western by the St. Louis Car Company. 25
- Despite the general decline in passenger traffic in 1953, as compared with 1952, eight Class I railroads reported



Current Statistics

4.6	
Operating revenues, twelve mor	oths
1953\$	
1952	
Operating expenses, twelve mon	
1953\$	
1952	
Taxes, twelve months	0,033,137,011
1953\$	1 184 857 140
1952	
Net railway operating income,	
1953\$	
1952	
Net income, estimated, twelve m	
1953\$	
1952	836,000,000
Average price railroad stocks	000,000,000
February 23, 1954	61.84
February 24, 1953	68.68
Carloadings, revenue freight	00.00
Seven weeks, 1954	4,215,412
Seven weeks, 1953	4,723,258
Freight cars delivered	4,, 20,230
January 1954	4.944
January 1953	7,981
Freight cars on order	,,,,,,
February 1, 1954	27,959
February 1, 1953	77,414
Freight cars held for repairs	
February 1, 1954	94,855
February 1, 1953	94,145
Average number railroad employ	
Mid-January 1954	1,107,633
Mid-January 1953	1,195,490
	.,.,0,4,0

RAILWAY AGE IS A MEMBER OF ASSOCIATED BUSINESS PUBLICATIONS (A.B.P.) AND AUDIT BUREAU OF CIRCULATION (A. B. C.) AND IS INDEXED BY THE INDUSTRIAL ARTS INDEX AND BY THE ENGINEERING INDEX SERVICE. RAILWAY AGE INCORPORATES THE RAILWAY REVIEW, THE RAILROAD GAZETTE, AND THE RAILWAY AGE GAZETTE.

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Week at a Glance CONTINUED

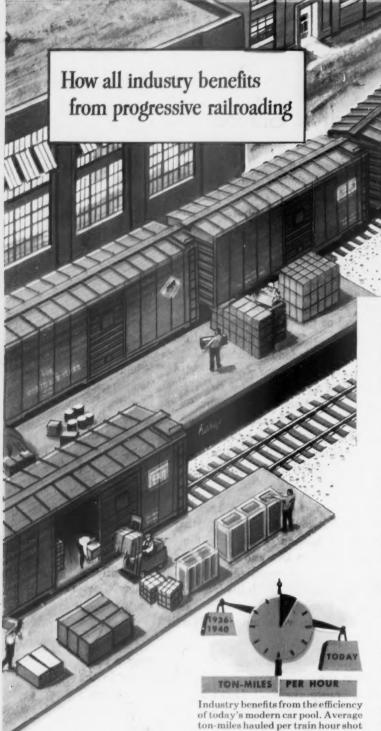
BRIEFS

Another proxy fight seems to be in the offing, this time for control of the New Haven. The road's management recently announced a slate of nominees to the 21-man board which included replacements for seven incumbent directors, four of whom were named to the board last year to avert a proxy battle. Patrick B. McGinnis, partner in a New York Stock Exchange firm, has said a group of stockholders he represents will present the April 14 stockholders' meeting with an alternative list of 21 candidates, including the seven management is seeking to replace.

All western roads taking part in the family fare plan have "liberalized" it, with a further fare reduction (one-fourth, instead of one-half, the one-way fare for children between five and 12 years), plus removal of the restriction that required the head of the family to make the return trip with his family on Monday. Tuesday or Wednesday departure dates only. The new features of the plan went into effect March 1.

The Department of Commerce has underway a study of "what should be modern government's role in the field of transportation." That's how the department's undersecretary for transportation, Robert B. Murray, Jr., describes the survey, which he thinks should lead to a "clearer definition of the basic needs of the nation for shipping, aviation, and highway transportation."

Television is being used by the Pennsylvania at Pittsburgh to speed up switching of mail cars to and from the post office. The camera is permanently focused on tracks serving the building; the receiver is in a signal tower 2,000 ft. away. This advertisement is one of a series currently running in national business magazines. We sponsor it in the belief that such a series will help make industry more aware of the outstanding record of railroad progress and achievement.



TODAY... a freight car is nearer your telephone

The last two years have seen a spectacular reduction in freight car "shortage" reports. In 1952, the cases where shippers waited more than 48 hours for a car were 84% fewer than in 1950!

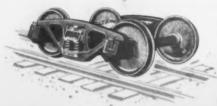
To provide this improved service, railroads retired over 115,000 old cars in '51 and '52 alone; replaced them with 155,147 new cars—enough to form a train 1,320 miles long! It meant a whopping investment of \$1½ billion. But, modern cars permit better utilization, one of the many reasons why a phone call brings them to your loading dock faster.

Railroads are also modernizing existing cars. Thousands are now equipped with the "Ride-Control® Package," developed by American Steel Foundries to replace the hard-riding springs on older cars. Package installations bring these cars up to modern riding standards, suitable for unrestricted use at unrestricted speeds. All this at costs that measure up to the economic realities of general repairs programs.

In short, a constantly replenished and modernized car pool is another reason why railroads offer better freight service at a bigger value than ever before.

American Steel Foundries

World's largest producers of railroad running gear Executive Offices: Wrigley Building, Chicago 11



New freight cars ride smoothly at passenger-train speeds, on ASF Ride-Control[®] Trucks . : . specified on more new cars than all other freight car trucks combined!

up 74% from the 1936-1940 period!

And now the Ride-Control Packages are being used to modernize existing cars—at realistic costs. Recent tests prove reductions in lading damage index of over 90%.



"Non-Ops" Blast Benson Letter

Wire President for withdrawal of letter and "strictest reprimand if not impeachment"

A letter from secretary of Agriculture E. T. Benson drew sharp fire from the 16 non-operating unions whose fringe-benefit-demand case is currently being heard by the presidential emergency board in Chicago. The letter addressed to Judge Charles Loring, chairman of the board, was made available by him to both union and carrier representatives.

In the letter, secretary Benson urged that the board seek some solution to the non-op case which would "... neither bring about a work stoppage on our railroads nor give any justification for another increase in agricultural rates." Either outcome, he said, would "seriously injure" the American farmer and the general public.

The letter, dated February 3, was apparently delayed due to mishand-ling. When Judge Loring brought it to light on February 23, all chiefs of the non-operating unions joined in signing a telegram to President Eisenhower at Washington which said in part:

"Railway employees are in most complete sympathy with American farmers in the condition to which they have been reduced in the last year, but obviously the remedy for unsound policies now prevailing in farm marketing is not to be found in attacks on other great groups of producing workers. This fallacy in the claims of Secretary Benson is the least of the objections to his conduct.

'Interference by a cabinet member in a proceeding that is required by law to be impartial is an unwarranted and outrageous infringement of the rights of railway workers under the Railway Labor Act. Such flagrant misconduct by a member of your highest official group merits the strictest reprimand if not impeachment. Believing as we do that you would not and did not sponsor this breach of law and ethics, we respectfully request that you remove, insofar as this is now possible, this impairment of the impartiality of this proceeding by publically disavowing the act of Secretary Benson and securing the withdrawal of the letter in question. We further respectfully request an opportunity to meet with you to discuss the explosive situation created by Secretary Benson."

The President was en route back to Washington from a California vacation, but James C. Hagerty, his press secretary, said he personally did not know about the Benson letter until receipt of the union chiefs' wire. Judge Loring recessed the hearing shortly after it legan on the morning of February 24. He set the hour to resume later that morning but did not himself return until considerably later. As near as could be determined just at press time, he was attempting to contact the President regarding possible withdrawal of the letter. In New York, Mr. Benson is reported to have commented that the letter was not an attempt to interfere, but "merely to present facts."

Mr. Benson's letter said that, since 1951, farm prices have dropped 19.5 per cent; net farm income had dropped 14.4 per cent; that "The worsening farm situation cannot be laid to a drop in consumer demand." He said one of the main causes of the drop in farm prices and income "is the continued increase in marketing costs, of which railroad freight rates are an important part." While the

farmers' share of the consumers food dollar dropped from 49 to 45 cents, agricultural freight rates have gone up to 10 per cent, his letter stated.

"The railroads have been losing agricultural traffic since the end of World War II. We believe they would lose more if freight rates were pushed up still further. This would mean a loss of employment on railroads. . . Since 1945 there have been 11 general increases in railroad freight rates. The present authorized rates on agricultural products are now about 70 per cent higher than in 1945.

"We feel strongly that another increase now would seriously injure the farmer and the general public. We realize the difficulties confronting your board, but we urge you to find some solution which will neither bring about a work stoppage on our railroads nor give any justification for another increase in agricultural freight rates."

In Washington, AFL President George Meany protested personally to President Eisenhower over Secretary Benson's "injecting himself into the railroad fact-finding board activities."

Mr. Meany called the secretary's action "just not cricket," and he said the board should not be subject to such pressure. He said the Benson letter was "not solicited" by the board

AD MANAGERS CITE WESTINGHOUSE AIR BRAKE, BUDD COMPANY, FOR ADS SUPPORTING RAILS

Top awards of the Association of Railroad Advertising Managers have been presented to the Westinghouse Air Brake Company and to the Budd Company for their respective advertising support of the American Railroad industry.

The awards were presented by Chester C. Dilley, retiring president of the association, who cited the Westinghouse company for its efforts toward a better public understanding of the nation's railroads. He gave a bronze plaque to W. Lyle Richeson, vice-president of the railway equipment manufacturer, during the association's three-day meeting in New Orleans late in January. A certificate of merit was presented to the American Cyanamid Company as runner-up in this phase of the association's competition.

A similar plaque was presented to A. Dix Leeson, advertising manager of the Budd Company, Philadelphia, in recognition of his company's advertisements aimed at direct promotion of railroad traffic. Certificates of merit were awarded to International Nickel, Inc., and to the Westelox division of General Time Corporation.

Judges for this, the association's third annual advertising competition were: Walt'r Weir, vice-president, Donahue & Co., New York; Ernest Williams, professor of transportation, Columbia University; James G. Lyne, editor of Railway Age; and Mr. Dilley.

Newly Elected—The association picked an entirely new slate of officers to serve until its next annual meeting early in 1955. They are: Leo A. Brown, director, advertising and public relations, Wabash, president; Alfred E. Greco, assistant to vice-presidenttraffic, Pullman Company, first vicepresident; Don E. Wallace, assistant manager, department of public relations, Canadian Pacific, and Harry F. Tate, advertising agent, Missouri-Kansas-Texas Lines, vice-presidents; and Alex. W. Robertson, advertising manager, Missouri Pacific, treasurer. A. W. Eckstein, advertising agent, Illinois Central, was appointed executive secretary.

"No Time to Increase Labor Costs"

William White tells emergency board that annual cost of "fringe" benefits demands would be \$630 million

"The frightening aspect of the railroad situation today is that wages have become so large a part of railway operating expenses, and have increased so much faster than operating revenues, that the margin of profit has diminished to the point where any substantial reduction in traffic may spell Robert S. Macfarlane, disaster." president of the Northern Pacific, said

in Chicago February 24.

Speaking before the emergency board hearing health, welfare, free transportation and other fringe demands of the non-operating unions, Mr. Macfarlane cited the effect of transition from a wartime economy to a normal peacetime economy 'which inevitably involves some recession in business"; the railroads' "uphill battle against subsidized competition," and their need to "continually improve service and increase efficiency of their operations . . . requiring large capital expenditures which, under existing conditions, must be met out of earnings.

"The reduction in operating revenues anticipated in the current business recession," he said, "will have an immediately serious effect on net earnings and the ability of the railroads to obtain funds needed for improvements.

"It is certainly no time to increase

labor costs."

Others Testify — In an earlier hearing, William White, president of

the New York Central, testified that the "exorbitant" cost of the unions' demands would "undermine" the railroads' service improvement program. Estimating the cost of the demands at \$630 million a year, he said "neither the New York Central nor the railroad industry as a whole could possibly bear the burden of these demands.

Increasing rates and fares "in this day of active carrier competition" cansolve the problem, he warned. These must be kept at competitive levels if railroads are to grow, "or even if they are to maintain their present position." Pointing out that rates and fares must produce earnings adequate to attract capital, he said: "Without adequate capital to maintain and improve facilities and methods we will inevitably fall behind our competitors and the resulting injury to the railroads and their employees is beyond measure.

'I would not imply or suggest that either the public, the railroads or the investors have a right to maintain service or earnings at the expense of maintaining substandard compensation to railroad employees. But I do suggest that railroad labor should not be leaders in progressing extravagant fringe demands without regard to service to the public and earnings for capital. The fact is that our workers presently enjoy much higher earnings and more favorable conditions than does the average worker in American industries.

activities for which the fees are proposed.

Included among the proposed fees are the following:

A Mahaffie-Act application must be accompanied by a minimum fee of \$1,000, plus one-two-hundredth of 1 per cent of the principal amount, par or stated value, of the securities to be altered or modified in excess of \$20,000,000. Maximum fee would be \$5,000.

A Bulwinkle-Act application (section

C&O SELLS ITS 800,000 SHARES OF NYC COMMON

Directors of the Chesapeake & Ohio, meeting at Cleveland February 25, approved sale of the company's entire holdings of 800,000 shares of New York Central common stock to Clint W. Murchison, of Dallas, Tex., and Sid W. Richardson, of Fort Worth. Walter J. Tuohy, president of the C&O, said the sale was made "at an advantageous price" of \$25 a share, representing a profit of approximately \$2.4 million. In reply to press questions concerning the transaction, Mr. Tuohy refused further comment, but repeated that "the stock was sold at a profit to C&O shareholders."

In a statement issued at New York the evening before the sale was officially revealed by the C&O, William White, president of the NYC, described it as "a favorable develop-ment for us." "It explodes," Mr. White said, the claim of Robert R. Young, former C&O board chairman, "that 90 per cent of NYC stockholders are behind him" in the effort he is making to obtain the chairmanship of the Central's board of directors.

Mr. White also charged that "the interest of C&O stockholders is ap-parently ignored," and that "there would seem to be a continuance of close relationship between

Young and C&O."

The shares sold by the C&O represent approximately 121/2 per cent of all outstanding NYC common stock. While owned by the C&O they had been held in trust under an Interstate Commerce Commission order by the Chase National Bank of New York. How they would have been voted—if at all—in the anticipated proxy fight between Mr. Young and the Central management had been a subject of speculation in the financial press.

Meantime, Mr. Young himself announced he had instructed attorneys to bring suit against four bankers who are also Central directors for "wasting the assets of NYC by causing Mr. White and other employees to engage in this factional fight between . shareholders" and for "enaploying such outside help" as Robinson-Hannagan Associates (public relations counsellors) and Georgeson Co. (proxy solicitors).

Law & Regulation

I. C. C. Proposes Licensing "Fees"

Charges on applications filed with commission would cost carriers \$1,750,000 a year

The Interstate Commerce Commission has published a proposed "schedule of fees" which, if adopted, will cost the nation's carriers about \$1,750,-000 annually.

The fees would apply to various applications filed with the commission under the Interstate Commerce and Bankruptcy Acts. They would range from a low of \$75 (on applications for authority to become an officer or director of more than one carrier), to a maximum of \$5,000 (on a securities modification proceeding under Section 20b, the so-called Mahaffie Act).

Reason for the fee-charging proposal dates back to 1951. In an appropriation bill at that time, Congress declared that work performed by

federal agencies "in connection with issuance or grant of any privilege, authority, permit, certificate, license and the like shall be self sustaining to the full extent possible."

Last November, the Bureau of the Budget advised the various agencies to carry out this mandate. Managing Director E. F. Hamm, Jr., of the I.C.C., appointed a staff committee to draw up a schedule of such fees (Railway Age, November 23, 1953, page

Nineteen Proposals-This I.C.C. committee has come up with 19 proposals. A commission notice said the fees "are in general based on the average direct and indirect costs incurred by the commission for each of the

5a) must be accompanied by a fee of \$1,600. Applications to amend such agreements would have a filing fee of \$250.

An application for a certificate authorizing construction, extension, acquisition, er operation of lines of railroad must be accompanied by \$1,200.

A fee of \$1,000 would apply on applications for the pooling or division of traffic, service or earnings; on merger applications; on applications in which one or more carriers seek to purchase or lease properties of another; and on applications wherein a person seeks to acquire control of two or more carriers. All these applications come under Part I, section 5 of the Act.

Financial applications filed under sections 20a and 214 (new securities) must be accompanied by a minimum fee of \$50, plus one-fiftieth of 1 per cent of the principal amount, par or stated value, of the securities which the applicant seeks au-thority to issue. Maximum fee would be \$1,000. A similar charge would apply when one carrier seeks authority to as-sume liability for securities of another.

Other proposed fees would apply on abandonment applications (\$750), and trackage rights applications

Views Requested — The I.C.C. notice setting forth the proposed fees called upon interested parties to submit written "data, views or arguments" concerning their adoption. Deadline for the filing of such statements is March 31.

Meanwhile, a special committee on fees set up by the Association of I.C.C. Practitioners has already members of that organization that there is "no indication" the commission's proposal takes the "public in-terest" into consideration.

The committee has asked members of the association to vote on a resolution which states that fees should be assessed in accordance with a formula "that assigns to the public the major proportion of the estimated cost of licensing activities of the I.C.C."

I.C.C. Raps Practices Of Former NS Officers

The extent to which funds of the Norfolk Southern and its subsidiaries were used by former officers of the "for salaries, expenses and fees was inordinate, extravagant, and, in many instances, wasteful in violation of section 15a" of the Interstate Commerce Act, the Interstate Commerce Commission has found.

The finding was one of several made by the commission in reporting on its investigation of NS "management, accounting, financial and other practices. The inquiry, No. 30980, was instituted in January 1952, and the report noted that, since that time, the NS board of directors has been reorganized and the management "placed largely in different hands."

More Regulation Proposed -Among the other findings was one to the effect that the act should be amended to extend section 20's accounting and reporting requirements to all carrier subsidiaries, and to extend section 20a's security-issue requirements to securities of subsidiaries.

Respondent corporations, in addition to NS, were the Norfolk Southern Bus Corporation, which was recently sold by the railroad. Individual re-spondents included P. B. McGinnis and J. T. Kingsley, who were formerly NS board chairman and president, respectively.

All Business Entertains - In a separate concurring expression, Commissioner Arpaia said he went along on the "general result" of the majority report, but he was unable to subscribe to all of its conclusions. Mr. Arpaia

also said:

"In some instances those officials were called upon to exercise judgment as to the best course to pursue at the time. While we might have reached some other conclusion, we are not empowered to substitute our judgment for theirs Many corporate officers and lesser personnel have expense accounts and are expected to promote traffic and good will by judicious entertaining. Here, too, the amounts expended and the latitude given any particular official is a matter of judgment. . . .

"Expenses for entertainment and travel must bear some reasonable relation to the production of benefit and the promotion of the interests of the railroad. However, as to the amount and substantiation, we should not require more than the Bureau of Internal Revenue, since thereby we would be placing a standard on railroads which other forms of business do not have

to meet. . . Disbarment Cases Dropped -Along with its NS report, the commission made public an order discontinuing the proceedings wherein it had called upon attorneys representing Mr. Kingsley to show cause why they should not be disbarred from further practice before the commission (Railway Age, October 12, 1953, page 12). The attorneys are John K. Pickens and Jerry N. Griffin.

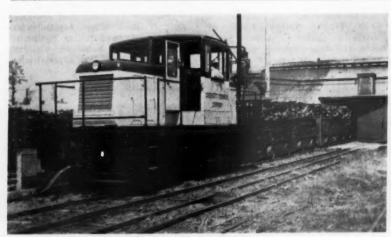
"No Comment"-In a statement issued on February 10, Cecil M. Self, present president of the NS, said that no comment on the part of the present management appears appropriate or necessary," as the proceedings "were directed specifically to responsibilities of the former management."

Organizations

S. Marlowe Martin, of the Terminal Railroad Association of St. Louis, has been elected president of the Car Department Association of St. Louis. Elected to serve with him as vice-presidents are H. C. Summers, Nickel Plate, W. C. Smith, Gulf, Mobile & Ohio, and J. E. Walsh, of the Manufacturers Railway, the St. Louis Refrigerator Car Company and the St. Louis & O'Fallon. Secretary-treasurer is D. W. Kramer, assistant chief interchange inspector of the Superintendents' Association.

The Car Foremen's Association of Chicago will meet March 8 at the LaSalle Hotel.

The Tri-City Traffic Club has elected the following officers for the oncoming year: President — James D. Nankivell, Northern Pacific; vice-presi-



THE DIESEL IN THE CHEMICAL INDUSTRY

Replacing two 50-ton steam locomo-tives, this General Electic 45-ton diesel-electric locomotive has enabled the Crossett Chemical Company of the Crossett Chemical Company of Crossett, Ark., to reduce operating costs approximately \$600 per month. According to H. Quinn, superin-tendent, "Not only is there a tre-

mendous saving in operating costs but in labor costs as well. The dieselelectric operates much faster so we do not have to work overtime, as we had to before, to finish the day's work." The plant makes charcoal, acetic acid, methanol, wood tars, and other products.

dent — George A. Bodenschatz, Bear Manufacturing Company; and secretary-treasurer—C. T. Bult, Acme Fast Freight, Inc.

The Southern Association of Car Service Officers has elected the following officers for 1954: President, C. B. Gotto, car accountant, Tennessee Central; vice-president, E. H. Major, superintendent car service, Louisville & Nashville; secretary-treasurer, F. I. Umhau, superintendent car service, Southern.

A dinner meeting of the Mississippi Valley Maintenance of Way Club is scheduled for 6:30 p.m., March 8, at the Hotel De Soto, St. Louis. R. P. Hamilton, superintendent safety, Frisco, will address the meeting.

Senator Joseph R. McCarthy, of Wisconsin, was principal speaker at the 44th annual dinner of the Traffic Club of New York, held February 18, with a total attendance of approximately 2,350 transportation and industrial traffic men. John P. Dennis, traffic manager, Texas Company, president of the club, and Harry H. Meyer, eastern traffic manager, Chicago & Illinois Midland, and chairman of the dinner committee, presided.

The following have been elected officers for 1954 of the Western Association of Railway Tax Commissioners: President, C. W. Graham, agent, real estate department, Pennsylvania; vice-presidents, M. L. Boydston, tax commissioner, Milwaukee, J. C. Kenady, right-of-way, land and tax commissioner, Great Northern, and U. C. Brown, tax commissioner, St. Louis Southwestern; and secretary-treasurer, L. R. Norberg, assistant tax commissioner, Milwaukee.

The Transportation Club of Peoria has elected E. Solomon, warehouse and transportation superintendent of the Kroger Company, as president. Elected to serve with Mr. Solomon are: Vice-presidents—R. A. Barnett, division freight agent, New York Central, and K. E. Hopkins, manager—traffic division, Peoria plant, Caterpillar Tractor Company; and secretary-treasurer—C. M. Abernathy, assistant to traffic manager, Keystone Steel & Wire Co.

The Ohio Valley Transportation Advisory Board has elected H. E. Solsmon, traffic manager Andrew Jergens Company, Cincinna..., as chairman for 1954. Vice-Chairman is R. J. Tyler, general traffic manager, Tube Turns, Inc., Louisville, Ky.

The Milwaukee Traffic Club has elected the following officers for 1954-55: President—R. H. Heilman, assistant general traffic manager, A. O. Smith Corporation; vice-presidents—Thomas A. Dodge, executive assistant to president, Union Refrigerator

Transit Lines, Gil C. Loeser, assistant general traffic manager, Joseph Schlitz Brewing Company, and C. F. Dahnke, assistant general passenger agent, Milwaukee; and secretary-treasurer— Walter Schulze, representative of Motor Cargo, Inc.

The General Eastern Passenger Agents Association of New York has elected the following officers for 1954: President, M. R. Kielgas, general eastern passenger agent, Chicago & North Western; vice-president, W. F. Vitt, general eastern passenger agent, Missouri Pacific; treasurer, T. J. Glancy, general agent, passenger department, Rock Island; secretary, J. H. Dimke, assistant general passenger agent, Erie; assistant secretary, C. C. Burns, general agent, passenger department, Milwaukee.

The Chicago General Agents Association has elected S. J. Ives, assistant general passenger agent, Chicago & Eastern Illinois, as chairman for 1954. M. O. Strom, general agent, Santa Fe passenger department, is vice-chairman, and R. E. Towns, assistant general passenger agent, Erie, secretary.

The Boston General Agents Council has elected the following officers for 1954: Chairman, W. D. Goss, general agent, Milwaukee; vice-chairman, R. A. Hasenstab, general agent, Canadian Pacific; secretary, Matt J. Flanagan, general agent, Chicago & North Western; treasurer, Harold Levine, assistant to vice-president, Sanford & Eastern.

The following have been elected officers of the Eastern Car Foreman's Association: President, J. F. Swafford. assistant master mechanic, Washington Terminal; first vice-president, H. E. Whitener, superintendent motive power and rolling equipment, Jersey Central; second vice-president. J. M. Quinn, assistant superintendent

car maintenance, of the New Haven.

New officers of the Canadian Railway Club, installed at the club's recent 50th annual meeting, are C. Niderost, assistant secretary, Canadian Pacific, president; J. C. Kenkel, assistant to vice-president, Canadian National, first vice-president; and L. B. George, assistant chief motive power and rolling stock, CPR, second vice-president.

C. Max Sheppard, city passenger agent of the Santa Fe at Oakland, Cal., has been elected president of the Northern California Passenger Association.

The ninth annual reunion of the Military Railway Service Veterans will be held September 17-19 at the Schroeder Hotel, Milwaukee.

The Oakland Traffic Club has elected Clifford H. Reeves, district freight agent, Southern Pacific, as president. Other officers are: Vice-president—Marvyn Fauria, traffic manager, Fruitvale Canning Company; secretary—R. D. Stokes, assistant traffic manager, Howard Terminal; and treasurer—Dwight N. Yeaman, office manager, Haslett Warehouse Company.

People in the News

Young Cites Passenger Loss as No. 1 Job on NYC

Robert R. Young, presently trying to win control of the New York Central, said on February 18 that the "No. 1 improvement" he would make on Central, if he wins, would be elimination of the \$40-million annual passenger deficit.

Discussing the NYC situation at a



PASSENGER TRAFFIC OFFICERS met recently at Montreal with regional training supervisors to discuss progress already made, and plan future action, in the system-wide education program for Canadian National passenger department personnel. Left to right are: V. E. Ek., assistant to

general passenger traffic manager; F. N. McKenzie, passenger traffic manager; A. P. Lait, assistant general passenger traffic manager, who acted as chairman; K. K. King, personnel assistant; N. A. Landerman and S. B. Evans, both of whom are training supervisors.



MAJOR GENERAL PAUL F. YOUNT, who has become the Army's chief of transportation (Railway Age, Febru-ary I, page 11). General Yount had been acting chief of transportation since the retirement several months ago of Major General Frank A. Heile-

Washington, D.C., press conference, Mr. Young said he would set out to encourage passengers, instead of discouraging them with "the present antiquated equipment." He accused present Central management of "stalling" on plans for improving the road's passenger business.

The Alleghany board chairman said his answer to the passenger-deficit problem is to put on new, comfortable, safe equipment that is "not 30 years behind the busses and airplanes." He said railroads have not sold "safety, and he suggested that the "only answer the A.A.R. has" to the industry-wide passenger deficit is "take off trains, and eliminate service."

Mr. Young was asked whether he would withdraw Central from the A.A.R. if he wins control of the road. He replied that he would hope to "wake up" the association, and said he felt he would have influence enough to bring the A.A.R. into the Federation for Railway Progress. Mr. Young founded the federation in 1947.

The A.A.R., Mr. Young said, is a "destructive influence" because would bring all railroads down to the level of the lowest. He said the association should do like the federation and try to bring all roads up to the standards of the highest.

Katy Steward is F.R.P.'s RR "Man of the Year"

Raleigh Mull, dining car steward on the Missouri-Kansas-Texas, has been selected by the Federation for Railway Progress as its "Railroad Man of the Year." A \$100 U.S. savings bond and a gold medal will be presented to Mr. Mull by Harrison C. Hobart, assistant secretary of labor, at a Washington, D.C., luncheon March 2.

Mr. Mull is the first dining car

steward to win the award, which has been presented by the federation each year since 1948 to "a railroad employee who has distinguished himself in rendering continuous outstanding service and courtesy to the traveling public."

Securities

Authorizations

NEW YORK, CHICAGO & ST. LOUIS.—To assume liability for \$2,970,000 of equipment trust certificates, to finance in part 25 diesel units costing an estimated \$3,737,171 (Railway Age, February 1, page 30). Division 4 approved sale of the certificates for 99.36, based on an interest rate of 2% per cent, which will make the average annual cost of the proceeds to the road approximately 2.75 per cent. Winning bid for the issue was by Halsey, Stuart & Co. and two associates. The certificates, dated March 1, will mature in 15 annual installments of \$198,000 each, beginning September 1, 1954. They were reoffered to the public at prices yielding from 1.5 to 2.8 per cent, according to maturity.

SOUTHERN PACIFIC.—To assume liability for

from 1.5 to 2.8 per cent, according to maturity.

SOUTHERN PACIFIC.—To assume liability for 59,660,000 of series MM equipment trust certificates, to finance in part 37 diesel units, nine passenger-train cars and 433 freight cars costing an estimated \$12,911,385 (Railway Age, January 25, page 17). Division 4 opproved sale of the certificates for 99,77 with interest at 234 per cent—the bid of Salomon Bros. & Hutzler and three associates—which will make the average annual cost of the proceeds to the road approximately 2.8 per cent. The certificates, dated as of January 1, will mature in 15 annual installments of \$644,000 each, beginning January 1, 1955. They were reoffered to the public at prices yielding from 1.65 to 2.85 per cent, according to maturity.

\$POKAME INTERNATIONAL—To issue and sell

SPOKANE INTERNATIONAL -To issue and sell SPOKANE INTERNATIONAL—To issue and sell 28,464 shares of no-par common stock to its present common stockholders at \$15 per share (Railway Age, January 25, page 17). Present holders will be allowed to purchase one new share for each six shares now he'd. Proceeds from sale of the stock will be used to pay for additions and betterments and provide additional working capital.

Applications

MISSOURI PACIFIC.—To assume liability for \$3,000,000 of series XX equipment trust certificates, to finance in part 24 new diesel units costing an estimated \$3,874,180:

Description

Estimated
Total Cost
Total

157,207 Motors)

157,207

Motors, to be dated March 15, would adure in 15 annual installments of \$200,000 ach, beginning March 15, 1955. They would be old by competitive bidding, with the interest ate to be set by such bids.

ST. LOUIS, BROWNSVILLE & MEXICO.—To assume liability for \$1,945 000 of senting FF equinaent trust certificates, to finance in part nine lew diesel units and 125 freight cars costing in estimated \$2,317,977:

Briefly . . .

. . . At a meeting held January 28 at the Duquesne Club, Pittsburgh, attended by about 250 railroad and steel company executives, M. C. McGowan, purchasing agent, Electro-Motive Division, General Motors Corporation, exhibited a motion showing big-game hunting in Africa. The picture, in color, depicted Mr. McGowan's experiences during a hunting trip to British East Africa in October 1952. The meeting was sponsored by the Edgewater Steel Company.

	Description	Estimated
	and Builder	Unit Cost
2	1,500-hp, road-switchers (Electro	
	Motive Division, General Motor	9
	Corporation)	\$168,686
1	1,500-hp. road-switcher (Genera	
	Motors)	
6	1,600-hp. road-switchers (Baldwin	
	Lima-Hamilton Corporation)	153,251
100	50-ton box cars (Missouri Pacific	
	Shops, DeSoto, Mo.)	6,500
25	50-ton box cars (MP Shops)	
The	certificates, to be dated March 1	5, would
mature	e in 15 annual installments of	\$123,000

mature in 15 annual installments of \$123,000 each, beginning March 15, 1955. They would be sold by competitive bidding, with the interest rate to be set by such bids. est rate to be set by such picas.

UNION (Pittsburgh).—To issue \$2,500,000 in notes to the United States Steel Corporation as evidence of funds used in construction of the Monongahela Junction classification yard. The notes would bear interest at 3½ per cent.

union OF MEMPHIS.—To issue an unsecured demand note for \$1,000,000, which would be delivered to Union's parent company, the Missouri Pacific. The note would replace a like amount of first mortgage bands, owned by the MP, which matured August 1, 1947. Accumulated interest on the bonds exceeds \$2.4 million, an amount which Union considers "impossible of payment." The new note would be non-interest bearing.

Security Price Averages

	Feb.	Prov.	Last
Average price of 20 repre sentative railway stocks	61.84	62.13	
Average price of 20 repre- sentative railway bonds		94.10	94.81

Dividends Declared

BANGOR & AROOSTOOK. — 5% preferred, \$1.25, quarterly, payable April 1 to holders of record March 8.

BOSTON & MAINE.-5% preferred, \$2.62, payable April 15 to holders of record April 1.

DENVER & RIO GRANDE WESTERN.—common, \$1.25, quarterly, payable March 22 to holders of record March 12; 5% preferred, \$1.25, quarterly, payable March 22, June 22, September 20, and December 20, to holders of record March 12, June 11, September 10 and December 10, to holders of record March 12, June 11, September 10 and December 10, to holders of the payable was the payable with the payable was the payable with the payable was the payable with the payable was the payable was

ERIE.—371/2€, quarterly, payable March 31 to olders of record March 5. ILLINOIS CENTRAL.—\$1.25, payable April 1 holders of record March 3.

MISSOURI - KANSAS - TEXAS .- 7% preferred, \$1.25, accumulated, payable April 1 to holders of record March TB.

OT record March 18.

OAHU RAILWAY & LAND.—50¢, payable March 12 to holders of record March 1.

PITTSBURGH, FORT WAYNE & CHICAGO...
common, \$1.75, quarterly, payable April 1 to holders of record March 10; 7% prefered, \$1.75, quarterly, payable April 6 to holders of record March 10.

March 10.

SOUTHERN PACIFIC.—75¢, quarterly, payable March 22 to holders of record March 1.

SOUTHERN.—M & O Stock Trust, \$2, semi-annual, payable April 1 to holders of record March 15.

Supply Trade

G.E. Opens Rebuilding Facility at Erie

A complete locomotive rebuilding and overhaul service has been estab-lished at Erie, Pa., by the General Electric Company.

The new facility, in addition to 31 G.E. service shop facilities available to locomotive users throughout the country, has been set up to fill the need for a complete locomotive rebuilding service among industrial locomotive users and railroads operating comparatively small fleets of motive power, G. W. Wilson, general manager

of the firm's locomotive and car equip-

ment department, said.

The new program will include all kinds of heavy maintenance and overhaul rebuilding, modernization, conversion and wreck-rebuild work. New locomotive warranties will be issued to operators of locomotives completely rebuilt. On locomotives rebuilt or overhauled to customers' specifications, warranties will be issued to cover areas on which work is done.

A.C.F. Would Change Name, Increase Stock

A special meeting of American Car & Foundry Co. stockholders has been called for April 15. Stockholders will be asked to vote upon a proposal to change the firm's name to ACF Industries, Inc., a proposal to change the company's objects and powers, and a proposal to "change, readjust, reclassify and increase the company's capital stock."

Golden Anderson Valve Specialty Company, Pittsburgh, has moved its general offices to new and larger quarters at 1232 Ridge avenue.

W. B. Gilkey, who has been engaged in sales and personnel work for the Evans Products Company, has been named to the sales engineering staff of its Railroad Loading & Equipment division.

William L. Cunningham, who has been manager of railroad sales for Bendix Radio Division, has joined the Hammarlund Manufacturing Company as midwest sales manager, at Chicago.

Malcolm D. Salinger, assistant chief engineer, Cleveland Frog & Crossing Co., has been appointed chief engineer, succeeding George A. Peabody, deceased. Charles M. Cowles, of the engineering staff, has been named to succeed Mr. Salinger.

Research and service laboratories of Oakite Products, Inc., will be moved to larger quarters at 350 Hudson street, New York, about April 1.

Joel A. Fitts, sales engineer of Electric Storage Battery Company, at Chicago, has retired after more than 38 years of service.

George E. Anne, assistant vicepresident of the Brake Shoe and Castings division of American Brake Shoe Company, has been appointed vice-president.

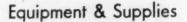
The Electronic Communication Equipment Company, manufacturer of railroad paging and communication equipment at Chicago, has appointed M. H. Wood as chief engineer. The company has also acquired additional manufacturing facilities and new offices at 1249 Loyola avenue, Chicago 26.

W. C. Wertz has been appointed district sales representative of Superior Steel & Malleable Castings Co., at Chicago.

J. W. Sullivan, area sales manager of Koppers Wood Preserving division, at Houston, has been named manager of the Colorado district, at Denver, succeeding R. C. Johnson, appointed special representative. H. O. Brown succeeds Mr. Sullivan at Houston.

OBITUARY

George A. Peabody, vice-president and chief engineer of the Cleveland Frog & Crossing Co., died January 27.



FREIGHT CARS

Pakistan Inquiring For 94 Cattle Cars

Pakistan's Ministry of Communications has invited bids for supply of 94 broad-gage, dismantled covered cattle cars for the North Western Railway, according to Foreign Commerce Weekly. Specifications may be borrowed from the Commercial Intelligence Division, Bureau of Foreign Commerce, U.S. Department of Commerce, Washington 25, D.C.

Colombia Will Buy 200 Freight Cars

The National Railways of Colombia intend to purchase about 200 box, flat, tank and gondola cars of 36-in. gage and a capacity of 30 to 35 metric tons, according to Foreign Commerce Weekly. Offers should be made only by suppliers willing to accept payment over five years. Specifications are obtainable from Col. Hernando Pena B., Administrador, Consejo Administrativo de los Ferrocarriles Nacionales, Carrera 6, No. 13-92, Bogota.

PASSENGER CARS

The Canadian Pacific has ordered one rail diesel car (RDC-1) from the Budd Company, for delivery in April. The car will go into service between Toronto and Detroit, thus increasing to three the number of RDC's operating between those points (Railway Age, September 14, 1953, page 15).

LOCOMOTIVES

159 Locomotive Units Installed in January

Class I railroads installed 159 new locomotive units (all diesel), in January, compared with 162 units (161 diesel units and one steam locomotive), in January 1953, the Association of American Railroads has announced.

On February 1, Class I railroads had 486 new locomotive units on order, including 461 diesel units and 10 electric and 15 gas turbine-electric locomotives, the announcement added, compared with 962 new units, including 919 diesel units and 14 steam, 10 electric and 19 gas turbine-electric locomotives, on order on the same date last year.

The **Monongahela** has ordered 10 1.200-hp. diesel switching units from the Baldwin-Lima-Hamilton Corpora-



LOWLY JOBS FOR TOP DRAWER STEAM locomotives are a common sight nowadays, as railroads go into the wind-up phase of their dieseliza-

tion programs. Here a Big Four (NYC) "Mohawk," built in the forties, totes a work train—smoke d: flectors and all,

tion at an estimated cost of \$1,084,000. Deliveries are scheduled for March, June and July.

The New York Central System has ordered seven diesel units from the Electro-Motive Division of General Motors Corporation. The diesels are to be assigned to the Cleveland Union Terminal, where electric-locomotive operation was discontinued fate last year (Railway Age, November 30, page 14). Included in the new motive power are four 1,750-hp. road-switchers and three 900-hp. switchers. Delivery is scheduled for March and April.

Figures of the Week

Net Rose 11% as Gross Doubled

That relationship pointed up by comparison of last year's results with those of 1941

Last year's operating revenue of Class I line-haul railroads was 99.5 per cent above the 1941 gross, but the net railway operating income was only 11.1 per cent greater than that of 1941.

This was shown by an analysis of the 1953 results which was included by the Bureau of Transport Economics and Statistics of the Interstate Commerce Commission in its latest "Monthly Comment."

Last year's gross of \$10,664 million was an all-time high, supplanting 1952's \$10,582 million as the record. The 1941 gross was \$5,346 million. Net railway operating incomes for 1953 and 1941 were \$1,109 million and \$998 million, respectively. In 1953 the roads carried 10.4 per cent of their gross to net, compared with 18.7 per cent in 1941.

The accompanying table, reproduced from the "Comment," shows for 42 large roads (those with 1953 gross above \$53 million), the percentages of 1953 and 1952 gross that were converted into net railway operating income. The figures also show each road's percentage contribution to gross and net railway operating income of its territory.

	ope	r cent net ilway erating ome of		of rev	r cent enues total enues in	tot ra ope inco	cent of al net ilway rating me in
Road	1953	1952		1953	ritory 1952		itory
Easte n district and	1733	1932		1933	1932	1953	1952
Pocahontas region							
Pennsylvania	7.23	7.00		00.00	00.40		
New York Central	7.65	7.28 6.17		22.33	22.49 17.64	16.08	17.06
Baltimore & Ohio	9.50	10.02		9.95	9.68	9.41	11.35
Chesapeake & Ohio	17.42	16.02		7.43	7.78	12.88	12.98
Norfolk & Western	14.63	14.59		4.09	4.28	5.96	6.50
Erie	10.46	10.42		3.92	3.86	4.08	4.19
N.Y., C. & St. L	13.01	13.99		3.61	3.56	4.68	5.18
N. T., N. H. & H.	6.02	6.51		3.56	3.57	2.13	2.42
Reading	12.72	11.95		2.87	2.88	3.63	3.59
Wabash	11.05	11.75		2.64	2.53	2.90	3.10
Del., Lacka. & Western	11.36	11.65		1.94	2.04	2.19	2.47
Boston & Maine Lehigh Valley	6.06	5.64		1.92	1.96	1.16	1.15
Central of N. J.	7.84	13.92 7.79		1.65	1.72	2.26	2.49
Grand Trunk Western	7.87	3.33		1.35	1.40	1.05	1.14
Elgin, Joliet & E	6.24	9.73		1.19	1.07	1.04	.43
Delaware & Hudson	18.86	15.28		1.19	1.26	2.24	2.01
Western Maryland	20.58	18.14		1.10	1.04	2.24	1.97
Total (18 roads)	9.86	9.52		89.87	90.00	88.25	89.22
		2.02			70.00	00.23	07.22
Southern region							
Illinois Central	10.68	10.40		20.34	20.28	17.01	17.51
Southern Ry.	15.26	13.39		18.15	17.95	21.68	19.96
Atlantic Coast Line	14.76	12.20		15.36	14.98	17.76	15.17
Seaboard Air Line	6.26	7.20		10.85	11.23	5.32	6.71
Gulf, Mobile & Ohio	11.42	14.35		10.33	10.61	12.31	12.64
Total (6 roads)	12.52	11.55		81.20	6.14	5.52	5.83
	12.32	11.33		81.20	81.19	79.60	77.82
Western district							
A. T. & S. F. and affiliated companies	12.24	11.48		13.59	13.45	16.67	15.18
Southern Pacific Co	8.63	10.53		12.10	12.28	10.46	12.71
Union Pacific	5.45	6.30		11.74	11.58	6.41	7.17
Chicago, B. & Q.	10.73	11.74		6.17	6.02	6.63	6.95
Great Northern C., M., St. P. & P.	10.27	9.96		5.94	5.79	6.11	5.67
Missouri Pacific	5.64 9.83	6.47		5.76	6.00	3.25	3.81
Chic., R.I. & Pac.	13.59	11.84		5.28	5.53	5.20	6.14
Chicago & North Western	4.38	3.94		4.61	4.76	6.27	5.55
Northern Pacific	8.21	8.67		4.01	4.59 3.96	1.99	1.78
Texas & New Orleans	8.37	9.15		3.23	3.30	3.30	3.38
St. Louis-San Francisco	11.71	13.44		2.88	2.88	2.71 3.38	3.80
Texas & Pacific	14.49	15.94		1.92	1.86	2.78	2.92
Missouri-Kansas-Texas Lines	11.09	12.62		1.89	1.89	2.11	2.35
Denver & R.G.W	15.46	14.15		1.88	1.83	2.91	2.54
S. L. S. W. Lines	19.08	18.37		1.61	1.64	3.08	2.96
Duluth, Missabe & I.R	23.00	11.63		1.40	1.08	3.23	1.23
Western Pacific	14.39	12.63		1.31	1.25	1.89	1.55
Total (18 roads)	9.82	10.05	- 0	89.85	89.69	88.38	88.66

Freight Car Loadings

Car loadings for the week ended February 20 were not available as this issue went to press.

Loadings of revenue freight for the week ended February 13 totaled 623, 706 cars; the summary for that week, compiled by the Car Service Division, A. A. R., follows:

For the week		AR LOADIN	
District	1954	1953	1952
Eastern	109,653	123,538	127,073
Allegheny	119,437	142,908	150,763
Pocahontas	45,425	47,403	61,308
Southern	120,476	126,724	137,451
Northwestern	70,760	73,432	78,546
Central Western	103,053	111,581	120,050
Southwestern	54,902	56,018	62,585
Total Western Districts	228,715	241,031	261,181
Total All Roads	623,706	681,604	737,776
Commodities: Grain and grain products Livestock Coal Coke Forest products Ore Merchandise I.c.I. Miscellaneous	44,088	38,590	47,831
	5,820	6,679	8,115
	109,417	115,202	146,541
	9,458	14,978	16,654
	40,882	44,212	45,643
	15,747	19,473	19,020
	64,466	70,714	77,531
	333,828	371,756	376,441
February 13	623,706	681,604	737,776
February 6	624,385	690,613	733,919
January 30	628,190	697,442	731,218
January 23	617,226	697,515	728,015
January 16	619,871	705,017	747,660

Cumulative total, seven weeks . 4,215,412 4,723,258 5,033,414

In Canada.—Carloadings for the seven-day period ended February 7 totaled 69,038 cars, compared with 84,455 cars for the previous 10-day period, according to the Dominion Bureau of Statistics.

	Revenue Cars Loaded	Total Cars Rec'd from Connections
Totals for Canada: February 7, 1954 February 7, 1953	 69,038 68,549	29,983 32,602
Cumulative Totals February 7, 1954	 335,389	146,616

Rail Employment Declined Most in Recent Months

Railroad employment has declined in recent months more than employment in transportation generally and in manufacturing.

The comparisons were made by the Bureau of Transport Economics and Statistics of the Interstate Commerce Commission in its latest "Monthly Comment."

They showed that railroad employment in January was 7.28 per cent below that of January 1953. For transportation generally (which includes railroads), the drop was only 2.88 per cent. The decline in manufacturing was 4.57 per cent.

November and December figures make a similar showing. Railroad employment was then off 4.12 per cent and 5.56 per cent, respectively, compared with the same 1952 months. Comparable figures for transportation generally showed drops of 1.34 per cent and 2.4 per cent, while figures for manufacturing showed declines of 0.98 per cent and 2.7 per cent.



LOADING a Tournapull with the aid of a pusher tractor. Water seeping from side slope made the blue clay tough to load and created difficult hauling conditions.



To Clean Ditches In Long Cut

Solution:



Off-Track Grading Machines

Effective use of modern off-track grading equipment in railroad service is illustrated by a recent project on the Toledo, Peoria & Western, South of Sunnyland, Ill., the road has a cut 1,600 ft. long in which erosion of the side slopes had caused the side ditches to be filled up almost to the tops of the ties. Because of the resulting loss of drainage efficiency water trapped in the cut was seeping into the roadbed and causing an unstable condition.

To remedy this condition it was decided to clean out the ditches and cut back the side slopes to provide wider ditches. The entire job was done with off-track equipment. First a bulldozer was used to make a rough opening the entire length of the cut. Next a trenchhoe cut back the slopes, knocking the material down into the

Two 9-ton capacity Tournapulls were then put to work to load out the loose material and to excavate some that



LOADED RIG on its way through the cut to the unloading area located at opposite end.



EXCAVATED MATERIAL was dumped and spread in waste areas at ends of cut. This view, showing Tournapull spreading material, illustrates wet, sticky conditions.

had not been knocked down. In doing this work these self-propelled rigs followed a modified "figure 8" pattern. Operating in a space exactly the width of the scraper, a Tournapull, assisted in loading by a pusher tractor, loaded at one end of the cut, hauled its load the entire length and spread it in a waste area at the other end. On the return trip the rig, after loading at the opposite end, proceeded back through the cut to spread its load in another waste area. A pusher tractor was located at each end of the cut.

The two Tournapulls worked from opposite ends of the cut. Because of the narrow quarters it was not possible for the machines to pass each other in the cut; hence, one had to wait to enter until the other emerged. A total of 15,000 cu, vd. of material was hauled out of the cut by the two machines. The work was done under





... and Harrison Cooling Helps Keep Locomotives Working

Most Diesel locomotives in service on American railroads today are equipped with Harrison radiators and oil coolers ... equipment that helps keep them rolling and earning to full capacity year in and year out.

With Harrison cooling, jacket water and lubricating oil temperatures are efficiently controlled. As a result, Harrisoncooled locomotives perform better and spend more time working, which means greater earning power.

Questions and Answers FOR THE TRANSPORTATION DEPARTMENT

A handling line renders a telegraphic report to car owner merely indicating that a defective car requiring extensive repairs is being held under owner's responsibility. Does this meet requirements of Interchange Rule 120 so far as stopping per diem is concerned?

If payments for loss and damage were allocated to the yards or locations causing them or responsible for them, would it have a beneficial effect and tend to reduce the volume of such payments?

No, subject to change.

It is the intent of the rules that per diem should stop on the date of the communication to car owner transmitting full information required by Interchange Rule 120, submitted either on a joint inspection certificate form or by means of a detailed letter.-"Interchange Rules - Questions and Answers," appearing in Railway Locomotives and Cars, companion publication of Railway Age, February 1954.

(The editors of Locomotives and Cars state that this and other answers

given in their column are not to be considered interpretations of the interchange rules, since these can be made only by the Association of American Railroads' Mechanical Division's Arbitration Committee. Also, answers, even though they may be based on the writer's background of intimate association with application of the rules, may quickly become inapplicable due to changes in the rules or through an interpretation of the Arbitration Committee.-G.C.R.)

Good idea, but . . .

Although the suggestion that payments for loss and damage be allocated to locations responsible is timely, we have found it difficult-in fact almost impossible—to put our finger on the point or points where much of the damage takes place. (Italics mine.-G.C.R.) Do not misunderstand me. In the case of every claim, our freight claim officer obtains a car movement form on carload traffic, and in the event of rough handling, trip reports of all conductors of freight trains handling the car. Also, reports of accidents along the route traversed by the "claim car" are checked closely to determine, if possible, whether or not the car was involved in irregular or rough handling. Notwithstanding this effort, freight claim investigators are able to determine actual point of rough handling or damage in less than 10 per cent of claims investigated .-J. J. Mahoney, general superintendent transportation, Santa Fe.

The great mass of freight claim payments are in the so-called "unlocated" category, because the damage is not discovered until the car in which the freight is traveling breaks bulk at destination. Only when there is physical evidence of damage to the car, caused by derailment, or something of that nature, or where there are records developed by impact register tests, can responsibility for damage be placed with a particular yard. Therefore it is not possible to locate damage in any large percentage of cases. When we are fortunate enough to locate such damage, the matter is thoroughly investigated and handled with the emplovees at fault and corrective action taken. .

We follow a procedure on the Lackawanna, as a substitute for the proposal advanced in your question, which we feel has some worthwhile effect. Photographs are taken of loads out-turning in a damaged condition at destination. These are placed on bulle-

tin boards of yards through which the particular cars traveled, so all concerned can see the result of rough handling. Although we cannot say at which yard the damage may have oc-curred, the fact that the men have an opportunity to view the photograph has a good effect.—W. J. Silich, freight claim agent, Lackawanna.

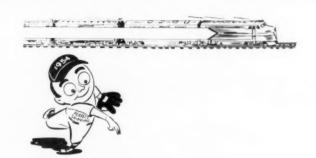
(Although it is not quoted here, Mr. Silich's letter also pointed out that statistics compiled by the A.A.R. Freight Claim Division support hisand Mr. Mahoney's-statement that only infrequently can responsibility for damage to lading be fixed. Mr. Silich stated that less than five per cent of such damage can be definitely allocated to "improper handling in trains, yards, or stations."

(It has been my observation that most men worth their salt will do a good job of handling a given situation where their responsibility for doing so is clearly defined. Costs are a responsibility, of course, and certainly damage claims are a cost of operation. Even though we may be able to fix the blame for this cost in only a small percentage of cases, would we be unfair if we charged to a yardmaster's switching costs, for example, the amount of the paid claim, assuming of course that one of his crews was clearly at fault? If it's not unfair, then, I assume it might be a good idea, if I read the first part of Mr. Mahoney's reply correctly. The hitch might be that fixing guilt and payment of the claim frequently occur a long time after the damage is discovered.

(There are, it seems to me, too many railroad costs which just occur, with no one held directly accountable for them. I think the less our operating people can escape responsibility for their, or their subordinates', acts the more efficiently will our "plants" be operated.)

-G.C.R.

CONDUCTED BY G. C. RANDALL, district manager, Car Service Division (ret.), Association of American Railroads, this column runs in alternate weekly news issues of this paper, and is devoted to authoritative answers to questions on transportation department matters. Questions on subjects concerning other departments will not be considered, unless they have a direct bearing on transportation functions. Readers are invited to submit questions, and, when so inclined, letters agreeing or disagreeing with our enswers. Communications should be addressed to Question and Answer Editor, Railway Age, 30 Church Street, New York 7.





April... "PERFECT" SHIPPING Month

Will receive concentrated attention in April Railway Freight Traffic

April is the month when "Perfect Shipping" will make the headlines wherever freight is packed, shipped and handled. "Strike Out Freight Loss and Damage" is the theme for this year's nationwide campaign conducted by the National Management Committee of the National Association of Shippers Advisory Boards, in cooperation with the A.A.R. This year's poster is reproduced above.

Railway Freight Traffic will focus the attention of Shippers on Perfect Shipping in its April issue through a special editorial program . . . including an article by the traffic manager of one of the largest shippers of l.c.l. freight. The monthly Traffic Poll also will feature a question dealing with perfect shipping.

Make perfect shipping the theme for your April freight advertisement in Railway Freight Traffic . . . the monthly magazine where shippers, the readers, and railroads and suppliers of related freight equipment get together.

"Most Quoted—Most Talked About for Its Useful Practical Discussion"

HOW TO LOSE MONEY SWAYS

- Z. USE OLD CARS! Maintenance costs will eat heavily into your profit picture. And a car out for repairs never makes back the money it loses!
 - 2. REPAIR THEM OFTEN! When a car is rolling, it's making money. When it's standing still, it's losing money! There's no in between!



3. DON'T BUY NEW CARSI

New cars could be paying for themselves moving today's "turned down" freight. Avoid this extra profit!



and...one sure

Let an experienced Q.C.F. freight car specialist show you how mass produced, standardized design freight cars lower initial costs, cut maintenance to a bare minimum, and continue to roll long after ordinary cars have passed by the wayside. It's a story well worth listening to! American Car and Foundry Company, New York Chicago • Cleveland • San Francisco Philadelphia • St. Louis • Washington

Q.C.f.

CAR BUILDERS TO AMERICA'S RAILROADS



You can translate the strategic location of Electro-Motive's 8 Parts Warehouses and Factory Branches into immediate savings for your line as one large railroad did:

Electro-Motive's regional Parts Warehouses

also help cut lost locomotive time which costs

railroads at least \$100 a day. With 24-hour de-

livery, in emergencies, railroads no longer need

to keep their Diesels standing idle for want of a spare part.

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One Source — One Responsibility for Every GM Locomotive Part.

For full details, call your Electro-Motive Parts Representative or write:

ELECTRO-MOTIVE DIVISION

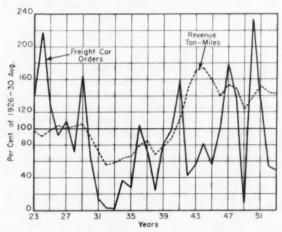
GENERAL MOTORS



Needed — More Inquiry Into Car Supply Economics

There are some railroad problems which are not the exclusive concern of only a few railroads, but are shared by every company in the industry. One of these common problems seems to be getting less than its share of inter-railroad attention (in ratio to its importance, that is). This is the problem of maintaining, at maximum economy, a dependably adequate supply of freight cars, physically suited to the available traffic.

Only a short time ago many railroads were "short" of freight cars and were clamoring for larger allotments of materials, so that they could increase their supply. In recent months, as is generally known, there have been more than enough cars to go around and orders for new cars have been meager. Railroad traffic is subject to fluctuations, and it is natural to expect that the number of cars ordered would also be subject to some ups and downs. The accompanying chart shows, however, that the fluctuations in the car orders placed by the railroads are much more violent than are the fluctuations in freight traffic volume.



Fluctuations in Revenue Ton-Miles and In Freight Car Orders
(Average for 1926-30 = 100 Per Cent)

In 1939 a standard freight car could be purchased for about \$2,700. A standard freight car today (a somewhat better car, to be sure) will cost in the neighborhood of \$5,900. The present fleet of about 1.8 million railroad-owned freight cars

would, therefore, represent an investment of about \$10.6 billion, if the cars were all new. The same sized fleet in 1939 (all new cars) would have represented an investment of less than half as much. There exists today, therefore, a much stronger financial incentive than ever for thorough study and effort to intensify the utilization, per unit, of the car fleet; and to remove as many of the causes as possible which tend to increase the cost of cars.

There are many "interests" involved in the supply of freight cars to the railroads. Some of these interests are frequently considered to be mutually conflicting. However, all of them would probably be better off than they are today if-by thorough analysis, discussion, and experiment-the railroads should attain maximum efficiency in freight-car acquisition, maintenance and management; and would use this increased efficiency pricewise to attract competitive traffic. A supplier can usually adapt profitably his methods and his products to almost any modification in the demands of a growing and prosperous customer. It is pretty hard, however, for even the most adroit supplier to adapt his operations profitably to serve an impoverished customer whose business is waning.

Nobody can be absolutely certain today just what detailed policies of acquiring and maintaining freight cars would, over the years, give the railroads the maximum economy and, hence, the greatest strength in holding and attracting competitive traffic. The very fact that competent railroad men have diametrically opposed opinions on some of these policies, actual or potential, is proof enough that more intensive analysis and experiment is needed. When the statistical and experimental facts are adequately collected and correlated and marshaled, the areas of difference among competent observers are minimized, and sometimes eliminated.

This paper will welcome from its readers their serious discussion of all pertinent aspects of this vital problem-always, of course, from the point of view of the long-run welfare of the railroads. One conclusion seems reasonably certain from no more data than those presented in the accompanying chart, viz., that suppliers (e.g., the manufacturers of cars and parts) which have to maintain production capacity to serve such peaks as those of 1924 and 1950-through periods of low demand (such as 1931-33, or 1938, or 1953)-have a higher product cost, and necessarily higher average prices, than would otherwise be required. Higher costs of whatever origin must be reflected in the pricing of railroad service - and, hence, must have an adverse effect on traffic volume.



ALCO'S all-purpose locomotive is hauling a freight train during a recent "on-line" demonstration

High-Capacity All-Service Diesel

American Locomotive six-wheel truck design powered by improved 2,250-hp. engine has a short-time rating of 107,400 lb. and, for passenger service, a 65,100-lb. rating at a speed of 80 m.p.h.

A high-output diesel-electric locomotive, designed for flexibility in handling all types of rail service, has been introduced by the American Locomotive Company. Model DL-600, the latest addition to Alco's diesel line is a sixmotor unit rated at 2,250 hp. A hood-type unit, the DL-600 differs in outward appearance from Alco-built road switchers since its front and rear hoods are the same height as its cab.

The DL-600 has been designed to operate with the short nose forward to provide maximum visibility. Another distinction is the recess found in each of the four corners of the hood, which contains the 45-degree number boards, classification lights and sand box covers. Hand rails enclose the entire running board area, and the vestibule-type steps are designed so that a brakeman can either use them or the locomotive's footboards.

This new heavy-duty all-purpose locomotive is a versatile unit built not only for high-speed, main-line freight or passenger assignments but also for slow-speed, heavy drag service. It is equally at home on medium speed local freight runs or yard transfer and switching assignments. Power for the DL-600 is furnished by the improved Alco Model 244 V-type diesel engine. The 16-cylinder engine is rated at 2,250 hp. A new feature is the water-cooled turbosupercharging system which is designed to provide lower maintenance cost and more rugged construction than air-cooled superchargers formerly used with this engine. The new turbo offers improved acceleration characteristics due to its smaller diameter impeller, is relatively quiet in operation, and assures better engine combustion.

The locomotive is equipped with two three-motor, three-axle trucks of the drop-equalizer, modified swivel type designed for ease of maintenance, equal weight distribution and smooth riding at high speeds.

For passenger service, the unit can be equipped with a steam generator of up to 4,500 pounds per hour capacity. Water capacity is 2,000 gallons.

Liquid capacity is provided on the underframe between the trucks which eliminates the danger of weight transfer and provides for simple maintenance. Fuel capacity of 1,350 gallons insures long operating periods without refueling, and, if a steam generator is not required, a single fuel tank of 2,400 gallons capacity can be installed.

The new locomotive is available with 3,400 dynamic-brake horsepower at 20 m.p.h., said to be the highest level yet offered on rail motive power, and fully automatic braking control can be added as a modification. Maximum dynamic braking forces range from 62,800 lb. with 65-m.p.h. gearing to 51,500 lb. with 80-m.p.h. gearing. The rear hood has been raised to permit application of the high-capacity dynamic braking over the engine.

Improved Electrical Equipment

Another feature of the DL-600 is the improved main generator, Model GT 586, which offers increased current capacity enabling traction motors to take full advantage of engine horsepower at all speeds. Short-time tractive ratings can be reached which allow the development of tractive force up to values corresponding to 30 per cent adhesion.

The unit is equipped with General Electric Type GE-752 traction motors, the same motors which are used on all Alco road locomotives. Traction-motor connections are designed to give maximum utilization of the diesel engine over the entire speed range of the locomotive. They are two series, three parallel and six parallel, both with full and rduced field strength. Automatic transition is furnished.

Main generator excitation current is supplied by a three-phase alternator and rectifier. The alternator feeds current into the rectifier for d.c. excitation. The system is designed for simplified maintenance, as the one a.c. generator replaces three rotating electrical machines.

Control circuits have been simplified by reducing the number of relays in the system, and the relays used are a new type designed to give longer life under service conditions. Both changes reduce control system maintenance.

The main generator is direct current and contains both main and starting windings. It is mounted directly at the end of the diesel engine, requiring only one generator armature bearing. The excitation alternator is mounted on the main generator, as is the auxiliary generator which supplies power for lighting, battery charging and control circuits. The auxiliary generator operates at constant voltage which is controlled by a voltage regulator. Both alternator and auxiliary are driven by gears connected to the main generator.

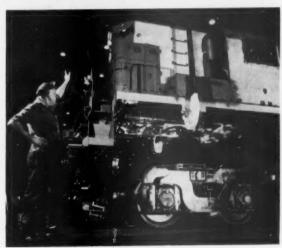
Air for traction-motor cooling is supplied by two multivane traction-motor blowers, each of which supplies air for the motors of one truck. The front blower is gear-driven off the main generator, while the rear blower is belt-driven from the shaft between the air compressor and the radiator fan.

Smooth Riding Trucks

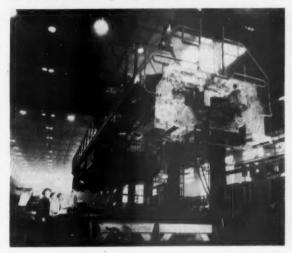
Arrangement of long equalizers and deep-deflection springs contributes to smooth riding at speeds up to 80 m.p.h. The spring system of the truck consists of four groups of two helical springs each, located near each end pedestal. The truck frame is supported on these springs which in turn are carried on four sets of double, drop-center equalizers extending from the end axles to the center axle. Desired axle loadings are attained by proper



ELECTRICIANS installing the control stand and contactor compartment in the DL-600.



COMPLETED SUPERSTRUCTURE being lowered onto the trucks in creeting shop in Schenectady.



THE UNDERFRAME and attached parts, as shown here, are assembled as a unit.



THE DL-600 pulling a commuler train into a terminal during one of its demonstration runs.

positioning of springs along the spans of the equalizers and proper proportioning of the springs. Mechanicaltype snubbers are applied in one spring of each group.

The center plate of the truck is located on a cross transom between two motors. The oil-lubricated loading-pad bearing surfaces are located similarly on the other transom at the opposite end of the truck. By placing the loadcarrying members between the motors, advantage is taken of the deep transom sections for carrying the load to the side frames.

Clasp-type brakes are used on all wheels.

The underframe of the DL-600 is a steel weldment, and the superstructure is of welded steel plate. The rear hood encloses the engine, generator, dynamic brakes and other apparatus, while the front hood provides space for steam generating equipment. The section over the engine and generators is removable and the radiators are located at the back of that hood.

The cab is of welded steel with controls and engineman's seat on the right facing the front, and a second seat on the left side of the cab. Doors are located in the right side of the rear wall and the left side of the front wall, as well as in the front cab wall for access to the steam generator compartment.

Operating Controls

The cab is designed for the comfort and safety of the operating crew, with emphasis on roominess, visibility and low noise level. A new, low control stand has been installed to facilitate crew communication. The stand, at the left of the operator's seat, contains throttle, selector handle, reverser handle and circuit-breaker-type switches for generator field and fuel transfer pump. Control circuits, headlight switches, light switches, wheel-slip indicating lamp, and the ground relay are also found on the control stand.

Air-brake gages, speedometer and load meter are placed directly in front of the engineman, and signal lights for low oil pressure, hot engine water and all other instruments are situated on the bulkhead for observation from normal crew operating positions. Two large freshair induction hot-water core-type heaters, which assure

ample heating capacity for any weather, are supplied. Windshield defrosters use air inducted from the cab heaters.

Braking System

The brake valve is located in front of the engineman so that he can operate it while facing forward. The air brakes are Schedule 24RL. Air is supplied by the two-stage, three-cycle compressor driven directly by the main engine. The displacement at idling speed (400 r.p.m.) is 122 cu. ft. per min., and at full engine speed (1,000 r.p.m.) is 306 cu. ft. per min. Two main reservoirs below the underframe have a total capacity of 60,900 cu. in.

Clean air for the dynamic braking system is provided through car-body filters located above the engine compartment doors in the sides of the hood. Air flow through the car-body filters also provides a continuous medium for removing heat from the compressed-air system. Air pipes are run between the air compressor and first main reservoir in parallel across car-body filters on both sides of the hood.

Automatic sanding and wheel-slip control equipment is also installed to give maximum control under all wheel slippage conditions.

The locomotive is powered by the improved Alco Model 244 engine having 16 cylinders of 9-in. bore and 10½-in. stroke and a full-load speed of 1,000 r.p.m. Engine starting is effected by using the main generator as a motor, with current supplied by storage batteries.

A gear-driven centrifugal pump circulates water through engine, radiators and lubricating oil cooler. Radiator inflow is controlled by a simplified modulated shutter control and by the variable speed of the 72-in. radiator fan, which is driven through an eddy-current clutch for speed control. Engine intake air is ducted from car-body filters direct to the water-cooled turbocharger air intake. The capacity of the cooling system is such as to keep the oil and water temperatures down to conservative figures even at high ambient temperatures.

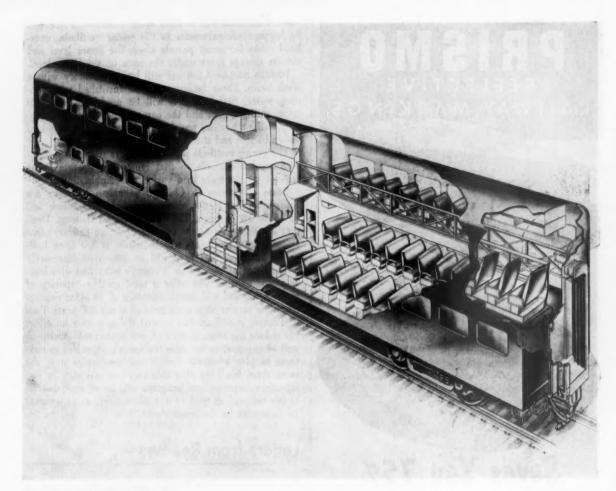
The DL-600 can be obtained in weights ranging from 325,000 lb. on driving wheels, where light axle loading is an advantage, up to 390,000 lb., where heavy axle loadings and corresponding greater tractive force can be utilized.

The DL-600 has continuous tractive-force ratings corresponding to the gear ratios as follows:

Maximum	Gear	Continuous
Speed	Ratio	Tractive Force
80 m.p.h.	64-19	65,100 lb.
75 m.p.h.	65-18	69,800 lb.
65 m.p.h.	74-18	79,500 lb.

The flexibility of the DL-600 can be noted from the continuous tractive-force ratings shown above. The 360,000-lb, unit geared for 80-m.p.h. maximum speeds provides continuous tractive force equivalent to 18 per cent adhesion. Thus, heavy freight drags can be handled by a unit also capable of 80-m.p.h. performance in passenger service.

Where the heaviest freight movements are involved, the 390,000-lb, unit with 65-m.p.h. gearing offers the highest continuous tractive force available and may still operate in high-speed freight or passenger service.



IN THIS NEW CAR . . .

169 Seats for Commuters

Financing arrangements have been completed on a \$2.24-million order for 16 double deckers now being built by St. Louis Car Company for the C&NW

Under a conditional sales agreement, the First National Bank of Chicago will finance the purchase of 16 new double-deck suburban cars for the Chicago & North Western, the order for which was reported in *Railway Age*, October 12, 1953, page 35. The cars are being built by the St. Louis Car Company for delivery in the latter part of 1954.

Engineering details include:

Independent Power Supply — Power for lighting and air conditioning will be independent of the locomotive and of other cars in the train. It will be furnished by propane-powered engines driving compressors and generators operating from a fuel supply adequate for two days of continuous service. The air conditioning system of each car will be of 16-ton capacity—virtually double that of a conventional lightweight coach for long-distance travel.

Ample Leg Room—Trucks and running gear have been designed for operating speeds up to 80 m.p.h. Roller-bearing trucks, coil springs, rubber draftgear and tightlock couplers will be employed. The C&NW says that despite the high seating capacity (169 persons), the cars will offer the same amount of leg room as in its present suburban cars. Three persons may enter or leave at the same time through the pneumatically operated sliding doors and the wide center vestibule—a factor that is expected to cut station times, especially during periods of peak traffic. Sliding doors are also located inside the vestibule and at each end of the car. These will normally be kept closed in order to realize maximum benefit of the heating or air conditioning systems. All cooling and heating will operate by automatic controls.

Wide double-glazed windows on both levels will be equipped with safety glass on the inside. Cable-guided



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Anti-peeling Prismo saves you money right from the start. Its longer life (4 to 7 times that of other materials), no waste and the fact that it can be applied by existing personnel and equipment are added attractions. No cutting around nuts and bolts because you spray it on. Prismo is better from every angle, at all hours. You can actually reflectorize your rolling stock for ½ the cost of any other reflective markings.

Use Prismo for

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- A Moving Billboard Advertising Your Road
- Safety at Your Grade Crossings
- Reduced Insurance Rates
- Durability Up to Six Years
- Lower Prized Reflectorization

Write, wire or phone for details today! Use your present personnel and equip-

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SAFETY CORPORATION

HUNTINGDON, PENNSYLVANIA

vertical curtains will be used at all windows. There will be luggage compartments in the center vestibule, overhead racks for small parcels along the upper level and similar storage space under the seats on the lower level.

Iceless Steps—Each car will have a lavatory with a wash basin. These facilities will be furnished with running water. Stainless steel will be used extensively in steps, railings, etc., and the car entrance steps will contain radiant heating panels to prevent accumulation of ice and snow and thereby provide safer footing.

The center vestibule pneumatic doors will be equipped with remote controls so that crews can operate doors throughout the train in a variety of combinations.

Some clearances in Chicago suburban territory are being modified to accomodate the new cars which will be 15 ft. 10 in. high. They are to be 85 ft. long. Until they are delivered by the manufacturer, no definite plans as to train assignments will be made. It has been indicated, however, that they will be employed intensively on all three of the North Western's suburban divisions. The new coaches will offer a total seating capacity of about 2,700 and will permit releasing of 32 older coaches from this service with a net gain of about 500 seats. Paul E. Feucht, president, has termed the new cars an effort "to reduce the total amount of our equipment-trains as well as coaches; to increase the seating capacity; to continue to give adequate service and modernize it at the same time. We hope that this experimental step in our suburban improvement program will be of such benefit to the railroad as well as our commuters, as to warrant its expansion in the years ahead."

Letters from Readers

Pay Claims on Cost Basis

NEW YORK, N.Y.

TO THE EDITOR:

Railroads and other interstate carriers have a tremendous expenditure burden which constantly confronts them in the settlement of claims for goods damaged or lost in shipment. These claims are adjusted on the basis of cost to the consignee.

Assume that the consignee is an ultimate retail purchaser who paid \$100 for a piece of merchandise, which was bought from a retail dealer. This then involves settlement on the part of a carrier with a profit in the amount for each link in the distribution chain—first the manufacturer, then distributor and last the dealer.

Why shouldn't settlement be made at manufacturer's cost, who in turn could replace the goods at that figure to the ultimate user, so that the carrier would be saddled with a charge of perhaps half the amount which the ultimate consumer paid on it, or any lesser proportionate amount depending on whether or not the claim was made by the consumer, dealer or distributor?

It is these various profits the carrier has to pay which could be eliminated if a method were devised that would permit the claims to be carried back and handled on the basis of manufacturer's costs.

This would result in savings of huge amounts which would naturally be reflected in a better profit picture for the carrier and perhaps ultimately lower freight charges.

SAMUEL A. WEISS

President Weiss & Besserman Co.

REVENUES AND EXPENSES OF RAILWAYS

(Dollar figures are stated in thousands; i.e., with last three digits omitted) MONTH OF DECEMBER AND TWELVE MONTHS OF CALENDAR YEAR 1953

									0	Serating !	* Thomas				[
Name of Road Akron, Canton & Youngstown Dec. Atchison, Topeka & Santa Fe Dec. Atlanta & St. Andrews Bay Dec.	Average mileage operated during period 171 171 171 13,093 13,905 82	8413 8413 6.131 39.544 511.143 3.639	Operating t Pass. \$3.986 \$49,629	Revenues Total(iu 1953 8422 6.292 49.247 613.531 5.748	60. misc.) 1952 8499 5,672 56,752 604,512 3,637	Maint, Way and Total 1953 1952 871 875 875 875 9.764 7.901 96.592 87.465 33.34 433	Total 1952 875 923 7.901 87.465 433	Structures Deprec. and Retire ments \$6 1.036 8,723 33	Total 1953 855 654 11,511 15,086	Maint, Equipm otal Total 1953 1952 855 851 654 648 551 9,627 9086 108,411 41 25	Betire- and Retire- menta \$15 184 1.831 20,933 20,933	Traffic p 842 483 22230 15,408 1	Train- portation \$132 1,712 16,710 188,088 70 814	Total 1953 8349 42,798 41,362 176 1,764	Total 1952 8349 4,039 38,522 150 1,761	Operating 1953 ratio 1953 66.0 711 86.9 677 11.9 70 65.6 47.1	[2 2 2 2 2 4	Net from railway pperation 73 2,137 6,449 772,169	Railway tax of accruals \$5 877 1.516 94,904 38 1.037	Net rai 1953 *42 *69 *869 4.858 75,109 .570	882 882 835 6,695 47 47
Atlanta & West Point 12 mos. Western of Alabama 12 mos. Atlantic & Danville 12 mos.	93 93 133 133 205 205	3,347 293 3,827 133 1,858	475 475 41 459	398 4,508 4,806 137 1,885	399 4,555 4,712 146 1,891	692 639 31 425	555 641 641 814 814	€ 15 - 15 ct 23	765 765 804 171	732 64 812 182 182	134 174 195 55 55	191 171 144 144	1.819 1.42 1.732 48 590	307 3,749 294 3,642 130 1,480	3.684 3.684 3.626 1.501	1.88-1. 6.51.6.6.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	68 6 7 7 7 6 2 9 4 4 7 9 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	759 109 1165 405	355 48 654 9	45. 55. 55. 55. 55. 55. 55. 55.	256 491 491 491 491
Atlantic Coast Line Local Charleston & Western Carolina 12 mos. Baltimore & Ohio Dec. 12 mos.	5,366 5,378 343 343 6,183 6,185	10,961 131,540 522 6,725 28,566 407,948	1,750 19,723 1,862 21,642	14,188 164,579 546 6,939 33,160 460,849	15,927 169,945 611 6,529 36,523	2,233 28,914 152 1,880 4,504 60,628	3,178 31,466 87 1,507 4,350 57,412	2,293 2,293 122 520 6,391	2,810 40,016 107 1,220 7,201 97,070	3,252 36,472 1,351 7,894 90,944	579 6,583 44 511 1,026 12,235	4.535 18 208 919 10,959	5,191 60,784 161 2,018 14,442 77,403	11,365 141,646 1455 5,497 28,670 366,066	13,278 138,627 411 5,285 30,078 351,518	80.1 86.1 79.2 79.4	83.4 81.6 67.3 83.0 79.4	2.823 22.933 92 1.442 4.430 94.783	1,050 9,525 Cr 15 575 2,455 34,652	1,643 10,296 124 915 613 43,798	1,383 2,233 195 805 4,340
Staten Island Rapid Transit Dec. Bangor & Arcostook 12 mos. Bessemer & Lake Frie 12 mos. 12 mos.	\$500000 500000 500000	207 2,785 1,043 12,096 971 29,868	54 602 36 403 1	263 3,437 1,124 1,001 30,107	3,702 1,326 13,161 1,724 25,915	45 663 2,823 2,823 2,645	2,795 2,795 2,534	166 166 122 123 124 128 128 128 128 128 128 128 128 128 128	343 343 320 2,926 902 8,630	33 372 320 2.853 1.179 8,109	1,067 1,067 1,555 1,555	20 32 32 32 262	1,696 317 3,446 5,725	256 3,096 875 10,233 1,812 IB,391	3.341 917 10.197 1.949 17.541	97.1 90.1 77.9 78.9 181.1	100.6 90.2 69.1 77.5 113.1 67.7	341 249 2.739 -812 Ca	36 Cr 153 1,291 r 1,739 6,918	2,243 1,158 7,378	63 369 1,772 855 6,307
Boston & Maine 12 mes. Cambrio & Indiana 12 mes. Canadian Pacific Lines in Maine 12 mes.	1,676 1,677 1,677	5,273 67,435 1,676 1,676 5,620	956 11.397 36 598	7,156 88.871 150 1,678 517 6,605	8.734 89.852 1.586 610 6.526	1,255 15,504 41 41 242 184 1,361	16.279 16.279 18 227 106 1.435	269 2,156 10 5 62	1,049 13,337 1,005 1,523	1,018 13,554 84 1,010 1,210	2,124 2,124 268 268 17 206	114	33.226 37.271 252 252 252 253 2,664	6,036 71,599 169 1,673 541 5,830	6,103 12,544 133 1,588 5,632	84.4 80.6 112.4 99.7 104.7 88.3	86.3 86.3 86.3 86.3	17,272 17,272 19 C	7 97 712 28 335	5,382 1,014 88 67	1,049 5,063 68 770 -126
Canadian Pacific Lines in Vermont. Dec. Central of Georgia	90 90 1,786 1,786 614 614	2,320 2,729 37,291 3,974 52,652	15 168 169 2232 405 5,553	230 2743 3244 42.916 4.842 62,348	216 2,719 3,855 13,350 5,363 64,169	1,005 521 6,938 1,067 8,929	803 803 541 6.921 1.161 9.148	5 60 685 685 1,376	516 6.835 941 12.139	33 362 591 7,250 1,096 12,025	130 1,371 1,79 2,118	85 145 1,659 82 971	119 1,479 1,356 16,563 2,102 25,670	3,112 2,747 34,525 4,385 50,245	2,778 2,778 35,860 4,807 51,743	84.7 84.7 80.5 90.6 80.6	100.6 102.2 74.7 82.7 89.6 80.6	33 496 C 8,390 457 12,103	15 168 3.233 3.233 5.712	1,245 449 4,265 -14 4,890	868 602 3,834 3,48 5,002
Central Vermont 12 mes. Chesapeake & Ohio 12 mes. Chicago & Eastern Illinois 12 mes.	422 422 5,102 868 868 868	893 10.086 22.222 318.602 2.268 29.616	58 737 696 8241 3,183	1,643 11,688 24,180 344,049 2,964 36,484	1,061 11,109 29,302 355,683 3,266 35,380	2,365 5,703 48,770 4,910	135 1,980 3,399 47,980 414 4,611	199 585 4.642 39 353	1,506 5,961 66,556 6,139	1,746 5,405 70,181 5,905	12 149 1,513 17,846 130 1,511	200 200 834 8,453 140 1,616	399 4,504 9,012 06,508 1,205 13,108	701 9,086 23,227 248,498 27,482 27,954	814 9,377 20,775 253,214 26,720	67.2 96.1 76.6 76.6	1.4.0.0.1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	342 2,602 95,551 482 8,530	35 494 Cr2.847 41,643 29 2,729	189 984 4,713 59,916 338 4,300	167 540 5,556 56,983 434 4,301
Chicago & Illinois Midland	130 130 1,875 1,875 8,867 8,867	906 8.846 11.581 160.069 17.763 230.611	2.107 22.586 1,832 20,350	9,051 15,634 204,344 21,631 278,414	818 7.011 17.560 206.165 24.971 270.348	22. 933 2.651 34.114 5,003	2.662 3.2296 3.576 42.108	12 95 349 4,040 1,056 5,297	1,919 2,220 36,414 3,602 40,018	94 1,512 3,040 37,265 3,397 40,840	23 279 819 9.478 768 8.585	33 379 359 4,456 514 6.093	239 7,111 90,399 8,658 97,999	529 6,431 13,176 175,528 18,645 203,124	5,407 14,730 178,040 193,436	57.0 71.1 84.3 85.9 73.0	51.8 83.9 67.2 71.2	399 2,626 2,458 2,986 75,289	158 1,325 178 12,026 1,003 39,557	198 1,712 8,956 1,371 29,880	172 451 629 8,128 5,501
Chicago, Ludinaspolis & Louisville Dec. Chicago, Indinaspolis & Louisville Dec Chicago, Milw., St. Poul & Pecific Dec	1.468 1.468 541 541 10.639 10,665	29,129 1,475 19,493 16,229 215,385	11 160 177 1,560 16,672	2.935 31,436 1,705 21,888 20,359 259,060	3,333 36,287 1,808 21,814 23,215 269,466	753 5,385 246 3,991 3,538 42,741	842 6,514 118 3,486 3,089 40,848	207 207 237 237 527 4,749	455 4,068 3,223 3,953 53,745	4,877 254 3,235 4,041 53,504	1,437 70 837 866 10,283	96 1,342 101 1,062 499 5,881	820 9,546 617 7,495 8,643 103,576	2,218 21,270 1,305 16,947 17,698 218,184	2.367 25.482 1.249 16.510 17,746	15.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0	71.0 70.2 75.7 75.7	10,166 4,941 2,661 41,676	3,699 205 1,871 161 17,972	317 4,055 160 1,985 1,892 14,664	3.690 203 1,907 3,172
Chicago, Rock Island & Pacific. Dec. Chicago, St. Paul, Minn. & Omahn. 12 mos. Clinchfield. 12 mos. 12 mos.	7.904 7.904 1.617 317 317	12.370 169.844 2.499 29.581 1.806 24.153	1,789 19,034 1,999 1,1299	15,799 207,955 2,935 34,334 1,813 24,279	18,757 213,938 3,192 34,723 2,282 24,229	1,581 497 5,856 301 4,439	27,383 390 5,353 318 3,693	3,118 59 58 58 58 19 19	2,648 32,562 38,562 5,1111 321 4,137	34,420 36,420 4,962 359 4,073	564 619 93 1.089 1,106	5,884 69 816 48 555	5,040	11,465 147,337 2,482 29,982 1,102 14,668	13,000 154,169 2,397 29,647 1,186 13,844	72.6 84.6 87.3 60.8	69 1221 1221 1232 1173 1173	4,334 60,618 4,352 711 9,611	23,919 153 2,104 1,052 3,466	28,259 48 48 601 7,595	2,533 25,339 422 330 1,002 9,381

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NOW MANY MORE DRY, GRANULAR AND POWDERED MATERIALS CAN BE SHIPPED IN BULK

Shippers using Airslide cars have transported commodities never successfully handled in bulk before

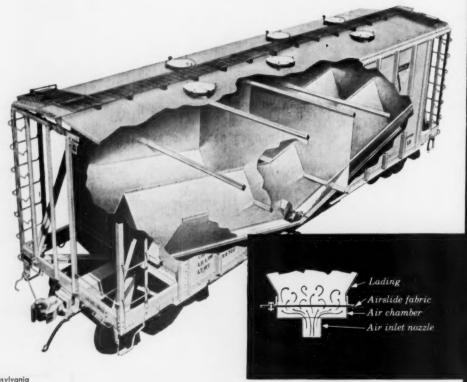
General American's new Airslide car fleet has started operation after months of actual working tests. New cars are coming out of its shops for companies who have actually tested them—found their value. These facts were considered before the cars were leased:

- 1. Airslide car shipping costs less.
- 2. High or low density materials can be successfully loaded, carried and unloaded.
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- **4.** Airslide cars can be loaded by gravity and unloaded into any conveying system.
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- **6.** General American can service Airslide cars in its own shops throughout the country just as GATX tank cars are serviced.

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General American's engineers will work with your traffic and production engineers to see how you can get the advantages and savings of bulk shipping. Write for information,



UNLOAD INTO ANY CONVEYING SYSTEM

The Airslide in car quickly and easily "fluidizes" the lading for complete, speedy unloading. With approximately one pound of air pressure, the lading is aerated and flows quickly and evenly to the discharge points.



GENERAL AMERICAN TRANSPORTATION CORPORATION

135 South LaSalle Street · Chicago 90, Illinois
OFFICES IN PRINCIPAL CITIES

REVENUES AND EXPENSES OF RAILWAYS

120 1,135 10,420 809 10,188

13,096 13,096 32 348 14 1,067

***					(Dollar f MONTH OF	Doller figures	Gures ere sta DECEMBER	AND AND	housands	i i.e., with E MONTH	SOF	three digits CALEND	omitted,	1) VR 1953						
1		Average mileage operated	Ĭ	Operating	Revenue		Maint. V	Vay and S	tructures Deprec.	Mair	erating E	rpenses nent Deprec.				1	Onera		Net	
Name of Road Colorado & Southern. Ft. Worth & Denver. Colorado & Wyoming.	Dec. 12 mos. 12 mos. 12 mos. 12 mos.	during period 729 730 1,038 1,038 40	Freight 1,132 13,871 1,873 19,513 151 2,165	Pa 64 869 1332 1.641	Total(i 1953 1,409 16,279 22,973 25,973 3,426	1952 1952 1,444 16,304 2,311 23,991 320 2,964	Total 1953 2,336 456 3,889 19 214	Total 1952 150 1,968 352 3,541 26 241	Retire- ments 21 246 52 449 22 249 249	Total 1953 2.225 294 3.238 42	Total 1952 2,419 235 2,903 33 410	Retire- ments 40 456 39 431 111	Traffic p 33 364 62 714 11	Trans- portation 466 5.489 1 652 7,590 1 1.248	Total 1953 1,101 11,108 11,570 16,622 176 2,041	Total 1952 1,053 11,269 1,442 16,712 198 1,935	1953 ratio 1953 195 73 69 73 62 73 62 59.5 65	[0] 0 - 0 1 0 0	callway operation 307 5,171 623 6,351 80 1,385	×0
Columbus & Greenville Dec. Delaware & Hudson Dec. 12 mos. Delaware, Leckawanna & Western Dec. 12 mos.	12 mos.	168 168 793 793 962 962 962	143 1,991 4,067 51,519 5,271 71,602	1,917 1,917 867 9,558	2.087 4.404 55.257 6.874 89,650	1,917 5,008 57,633 7,904 93,175	38 433 782 9,195 652 10,590	45 8,454 10,103	95 814 814 165 2.131	43 367 906 9,814 1,251 15,259	324 821 10.878 1.215 16.730	7.4 17.7 1,695 3.740	53 87 1,013 2,158	52 609 1,655 19,337 3,229 38,197	1,719 3,644 5,641 69,533	1,557 3,528 43,773 5,791	106.1 82.4 75.7 75.7 77.6	86.8 81.2 76.0 75.0 76.0	368 760 13,423 1,234 20,116	
Denver & Rio Grande Western. Detroit & Mackinac Detroit & Tokedo Shore Line	Dec. 12 mos.	2332 2332 2332 500 500	5,629 78,391 154 2,080 664 8,154	3,526	6,055 84,701 155 2,131 710 8,608	7.396 82,135 163 2.026 729 7.766	631 10,640 49 513 1,048	10,112 60 533 45 886	1,588 1,588 3,3 3,7	13,541 293 293 717 782	1,074 13,539 20 246 62 717	3,065 3,065 113 113	2,179 6 59 19 205	1,912 24,955 38 448 2,554	4,013 54,940 1,446 4,761	4,548 55,443 149 1,433 347 4,246	66.9 64.9 67.9 67.3 65.3	67.55 91.25 47.67 547.6 547.6	2,042 29,761 16 685 231 3,847	
Detroit, Toledo & Ironton Duluth, Missabe & Iron Range. Duluth, South Shore & Atlantic.	Dec. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos.	464 164 164 164 164 164 164 164 164 164	1.611 21,319 583 54,282 515 7,639	6 1-019	1,710 22,468 659 63,214 554 8,149	1,761 17,955 979 48,479 735 8,205	3,019 3,019 634 7,216 108 1,981	2,363 7,630 7,630 1,508	25 290 66 832 10 121	3,179 963 9,004 140 1,771	373 3,780 760 7,894 1,633	86 961 150 1,280 233 250	405 110 313 313 313	272 7,917 802 18,778 2,703	907 15,323 2,764 36,750 518 7,025	1,109 11,938 3,434 35,611 472 6,662	53.1 68.2 419.3 58.1 86.2 86.2	66.5 350.9 13.5 643.5	2,105 2,105 26,465 1,125	
Duluth, Winnipeg & Pacific Fagin, Joliet & Eastern. Erie	Dec. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos.	175 175 175 175 175 175 175 175 175 175	390 4,911 3,469 45,474 11,538 160,210	12 12 673	400 5,013 4,193 55,322 13,303 181,505	5.921 4.920 49.040 15.087	35 1,004 484 4,178 2,276 25,841	56 903 246 3,814 1,885 23,860	58 79 507 868 4,555	72 932 4.812 17.114 2.315 26.190	72 922 901 8,250 2,609 26,926	120 1383 498 5,933	4 56 431 4315 4,315	2.333 2.082 20.329 6.076	326 4,422 7,658 43,703 11,773	360 4,555 32,372 31,941	81.3 88.2 79.0 79.0 75.1	11.0 67.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0	3,465 11,618 1,530 45,122	505
Florida East Coast. Georgia Reilread. Georgia & Florida.	12 mos. 12 mos. 12 mos. 12 mos.	321 321 360 360 360	2,103 23,529 572 8,378 3,833	584 6,639 302	3,027 32,898 757 9,623 271 3,886	3,339 33,915 827 9,702 286 3,768	350 4,521 11.463 7.1 1,199	4.416 1111 1.410 98 1.090	604 100 100 42	530 6,393 131 1,625 36 446	638 6,172 1,526 39 443	935 367 367 68 68	902 36 413 238	1,204 12,239 327 3,884 1,139	2,326 26,119 646 7,808 3,214	26,103 655 7,838 277 3,092	76.9 79.4 85.3 81.1 84.3	2017 177.0 80.8 80.8 1.0 82.1	6,779 111 1,815 42 672	
Grand Trunk Western. Can. Natl. Lines in New Engl. Great Northern.	Dec. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos.	952 952 172 172 8,305 8,303	4.185 54.096 2.178 16.595 235.815	222 2,631 6 87 1,103 12,507	4,834 61,239 258 2,667 19,248 268,035	5,453 56,546 261 2,539 20,263 260,247	8,272 65 832 4,234 47,743	9,003 66 874 4,461 45,146	65 647 115 439 3,881	597 10,104 28 487 3,951 45,687	747 10,043 56 755 4,179 44,883	1,071	97 938 3 34 403 4,823	2,220 26,877 1,677 6,968 86,070 1	3,444 48,432 245 3,245 16,373 194,884	3.849 47.306 266 3.520 17.270 191.416	71.3 79.1 94.8 121.7 85.1	70.6 83.7 102.9 138.6 85.2 73.6	1,390 12,807 13,151 73,151	
Green Bay & Western Gulf, Mobile & Ohio. Illinois Central	Dec. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos.	22.166 2.766 6.537 6.538	376 4,591 6,062 82,282 20,177 254,680	453 4.612 2.158 23.356	384 4,680 7,714 93,633 24,778 308,374	384 3,711 8,026 92,856 27,996 306,856	67 996 1,739 14,851 3,058 45,236	684 1,591 14,830 3,179 46,217	47 156 939 484 4,588	29 490 1.653 17,071 5,266 50,647	51 485 1,397 16,101 4,651 50,838	8 93 268 3,130 713 8,265	257 283 3,206 5,732 6,132	1,156 2,235 26,767 9,222 06,478	254 3,117 6,441 66,433 19,101	2.631 6.108 65.051 19.077	66.2 66.6 71.8 71.1 71.1	46.6 76.1 76.1 76.1 72.8	1,563 1,563 1,274 27,201 5,677 87,359	
Illinois Terminal Kansas City Southern Kansas, Oklaboms & Gulf	Dec. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos.	355 371 891 891 327 327	798 10.594 3.161 41.980 394 6.493	778 778 1555 1,643	952 12,594 3,676 47,861 399 6,558	1,079 13,002 4,092 47,443 587 7,327	123 1,790 695 6,708 120 1,182	1,790 683 5,302 5,55 1,215	36 317 68 479 479 76	2,175 661 6,699 33 508	136 1,892 613 5,845 33 447	41 489 90 1,096 11 136	532 107 1,122 330	389 4,701 1,028 13,849 127 1,465	9,958 2,958 29,963 3,814	764 9,980 3,040 27,556 3,842	86 2 79 1 62 6 62 6 68 2	70.5 76.8 74.3 58.1 53.1	131 2.636 1.019 17.898 2.743	00
Lake Superior & Ishpeming Lehigh & Hudson River Lehigh & New England	Dec. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos.	156 156 96 96 180 180	59 4,039 2,68 3,493 537 8,046		4,955 2,568 3,500 541 8,120	4,033 3,343 5,994 8,994	517. 517. 517. 1.044	59 40 513 85 972	147 31 87 87	93 762 28 348 153 1,638	63 666 29 361 135 1,575	16 178 102 40 458	23 14 162 156 156	36 1,157 91 1,046 194 2,438	320 2,941 190 2,215 477 5,721	2.512 184 2.183 493 5.503	513,8 59,4 71.0 63.3 88.2 70.4	240.9 62.3 59.6 65.3 75.3 61.2	258 2,014 1,286 54 2,400	
Lehigh Valley	Dec. 12 mos. 12 mos.	1.163 1.172 360 361	5,039 68,415 1,205 14,661	385 3,700 2,969 38,223	5.742 76.339 4.417 55,855	6,403 78,507 5,143 53,837	1.433 10.800 693 7.782	2,755 11,761 681 7,416	680 1,770 151 1,095	1,369 13,503 913 10,763	1.266 12.806 1.098 9,746	2.478 2.478 127 1,461	189 1.740 18 185	2,868 30,908 2,425 27,301	6,195 59,139 4,191 47,991	7,623 59,744 4,483 46,968	107.9 77.5 94.9 85.9	119.0 76.1 87.2 87.2	17,200 226 7,864	

4,822 4,822 -73 -1,515 292 27,531





REVENUES AND EXPENSES OF RAILWAYS

(Dollar Agures are stated in thomands; i.e., with last three digits omitted)
MONTH OF DECEMBER AND TWELVE MONTHS OF CALENDAR YEAR 1983

							-	-		C.	morning	Examenam.	-	-		-						
		Average inflesage operated		Operating	Revenue		Major, W	Way and Si	Daprec.	Main		Deprec.			Trees.	. 7	Operatin		N. S.	Railway	Ned raffy	18.3
Louisiana & Arkansas Louisville & Nashville Maine Central	Dec. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos.	4,737 4,737 4,737 945	Preight 2279 28.655 15.003 204.922 1.713 21.874	Pas. 688 694 1255 12,921 125 1,443	2,427 30,476 17,759 232,983 2,043 25,408	1952 2315 20,462 20,854 226,724 2,285 26,824	860 5,542 2,635 32,937 5,174	25.519 2.519 32.393 460 5.377	434 434 326 2,645 74 635	104 4,104 3,871 66,252 798 4,303	333 3,338 4,176 48,526 389 4,600	1.051 806 9,311 7.4 963	Frame 942 942 4.152 2.22 247	67.3 67.3 7,896 6,334 77,668 8,844	1953 2.279 19.046 13.901 68.867 1,571	1982 1,651 11,695 773,248 1,747 20,682	1953 62.5 778.3 776.9	1952 ope 623 1 764 6	1148 C 1,430 3,858 4,116 5,791	7 136 7 136 7 136 7 25 7 25 7 26 7 26 7 26	244 6,003 2,784 34,384 192 2,491	1952 1,855 3,542 27,659 2,614
Midland Valley Minnespolis & St. Louis. Minn, St. Paul & S. Ste. Marie	12 Bec. 12 Bec. 12 Bec. 12 Bec.	334 334 1,397 3,222 3,223	2,468 1,524 21,069 2,175 36,222	13 87 67 1,060	2,505 1,605 22,001 2,403 39,707	22.901 27.024 22.901 27.767	54 588 239 3,820 717 8,988	56 385 389 4,007 808 9,438	363 363 617	13 263 263 3.243 739 8.212	224 184 3,239 724 8,022	45 45 913 101 1,187	1,520 1,520 936	61 711 711 7,067 1,361 15,676	153 1,663 17,019 3,017 35,412	1,713 1,713 1,625 17,318 3,129 36,398	121.6 66.5 82.4 123.5 190.2	86.35 6.25 86.35 6.25 86.37 6.25	840 840 840 1,295	C 37.12	262 262 171 1433 1,433	2.235 60 2.235 1.916
Missioni-Illinois. Missiouri-Illinois. Missiouri-Kansas-Texas Lines	Pec. Dec. 12 mos. 12 mos. 12 mos. 12 mos.	3,242,5 2,242,5 2,242,6	212 2,699 3,694 5,694 73,924	301	2.741 447 5.731 6.626 85,546	2,693 5,693 5,524 7,312 85,115	65 714 66 932 987 13,135	56 609 70 975 1,046 12,358	33 48 102 1.254	29 368 78 1,096 13,342	31 354 73 839 1,214 12,594	5255 1755 1755 1755 1755 1755 1755 1755	14 165 10 119 284 3,093	62 697 1.493 29,559	2,068 2,068 3,566 5,218 62,854	2.019 2.93 3.533 5,401 61,316	81.00 81.00	11.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	35 673 165 1408 2,691	250 250 251 251 8,939	263 263 905 177 177 9,485	205 85 875 1 190 10,741
Missouri Pacific. International-Great Northern. Gulf Coast Lines.	Dec. 12 mos. 12 mos. 12 mos. 12 mos.	6,922 6,934 1,104 1,723 1,723	15,433 206,308 2,311 32,623 3,253 39,474	1,021 11,290 187 1,892 94 1,106	18,218 238,262 2,675 37,237 3,468 43,217	248.491 3,414 38,204 3,973 44,340	4,035 45,720 536 7,974 906 9,976	43,246 801 7,914 954 9,376	3,602 37 457 47 492	3,847 47,824 515 6,802 508 6,504	3,926 46,755 6,821 6,635	766 9,000 11,354 1,298	494 5.664 7.26 94 1,096	7,618 67,051 1,208 14,516 1,246 14,068	16,666 94,136 2,440 31,559 2,909 33,445	17.426 91.867 2.864 31.584 32.921	841.55 83.88 13.88 13.88	88.9 83.9 73.5 73.5	1,552 44,125 235 5,678 5,678 0,771	7. 23.821 Cr. 93.3 2.342	23,414 3,514 428 5,225	28,052 28,052 336 3,491 5,383
Montongabels Montour Negaville, Chatt. & St. Louis	Dec. 12 mos. 12 mos. 12 mos.	51 51 1,032 1,032	164 2.621 2.447 34 077	153	2,643 3,056 39,946	2,328 3,691 41,228	392 392 431 6.214	277 465 6.870	31 31 50 629	915 522 5,902	87.8 87.6 45.5 8.583	1,596	136	62 842 1,215 13,671	2.280 2.388 28,667	193 2,343 29,070	111.3 266.3 71.8 11.8	98.8	1.279 1.279	28 598 5,480	63 668 5.838	41 194 6,153
New York Central Fittaburgh & Lake Erie New York, Chicago & St. Louis	Dec. 12 mos. 12 mos. 12 mos. 12 mos.	221 221 221 221 22185 2,185	44,407 695 6.1 3,051 45 867 12,014 159,446	11.513 17.718 857 1.919	64,787 825,349 3,316 49,259 12,665 167,364	75,686 806,926 4,502 45,845 14,321 162,727	8,594 113,565 3348 6,221 1,883 20,467	112,029 117,272 105 5,350 1,300 18,663	2.020 14,108 59 566 151 1,844	12,116 165,921 12,440 2,295 26,783	13,358 162,133 1,126 12,679 2,355 25,714	28,165 293 3,326 3,906	1.118 13.229 3 81 890 325 3.786	30.337 350,117 874 15,718 4,550 57,382	55,710 683,643 6.387 38,093 9,499 113,860	61,500 681,927 2,785 37,257 9,606 109,794	86.0 82.8 77.3 77.3 68.0	81.3 61.9 61.9 81.3 1 61.7 57.5 5	9,077 41,706 930 11,166 3,166 53,504	1,744 60,748 448 8,755 1,580 26,833	6.072 63.180 1.760 11.240 21.772	7.183 1.379 10.527 1.877
New York, New Haven & Hartford Dec. New York Connecting	d Dec. 12 mos. 12 mos. 12 mos.	1.77.1 1.77.1 1.2 1.2 1.43 1.43	7,204 94,897 277 3,740 495 6,817	4,785 51,408	13,822 165,029 321 4,106 511 7,063	15,029 163,420 4,084 543 7,047	2,984 27,641 118 1,194 115 1,585	2,614 25,172 82 1,144 93 1,441	3,590 3,590 3,01 17 17	1,993 24,307 18 284 99 1,055	25,048 25,079 309 80 988	395 4,652 272	2,227 23 291	5.887 69.648 1 85 1.058 243 3.184	32,973 1. 224 2,572 508 6,478	223 2.492 501 6.271	85.3 80.6 62.7 99.5	79.7 79.7 45.7 89.0	2,032 C 32,056 1 1,533 585	7.62 1.223 75 29 431	1,090 9,928 633 104 762	1,315 10,633 213 742 63
New York, Susquebanna & Western Dec. 12 mes. Norfolk & Western 12 mes. Norfolk Southern 12 mes.	12 mos. 12 mos. 12 mos. 12 mos.	120 120 2,135 2,135 620 620	397 5.022 13,233 176,541 902 10,965	40 504 4,914	5.811 14,499 189,560 915 11,127	518 5,693 16,121 195,651 996 11,699	52 670 2,142 27,132 308 2,524	56 686 2,719 28,716 453 2,660	323 3,502 48 193	62 726 3.140 40.230 148 1.462	2,579 2,579 40,203 1,528	144 659 7,638 319	103 434 3,841 55 589	2,478 5,021 57,661 3,199	359 4,312 11,334 36,450 8 23 8 561	361 4.265 11,510 38,580 1,119 9,367	77.7.4 7.4.2 7.2.2.0 890.9	74.9 71.4 70.8 80.1	105 3,165 3,165 53,111 2,567	2.127 430 7.076 7.076 1.143	1.868 1.727 833 894	88 597 28,547 28,547 621
Northern Pacific Narthwestern Pacific Oblishoma City-Ada-Atoka	Dec. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos.	6.866 6.879 331 331 132 132	12,226 159,312 876 12,487 1,074	639 7,613 6 49	14,546 181,175 909 13,041 80 1,081	15,951 177,869 928 13,253 81 1,124	1,959 30,438 284 3,545 41 281	2,469 29,108 320 3,251 30 274	3,246 20 280 280 280 54	2,848 34,360 124 1,308 3	34,395 34,395 100 1,279 43	438 5,097 4 50	351 8 17 22 22	5,882 69,511 1 4,525 244	46.834 1 801 9.714 616	12.928 43.249 1,008 10.279 62 667	88.0 88.0 74.5 93.6 57.0	81.0 80.5 30.5 77.6 59.3	2,756 34,341 3,327 465	22,759 22,759 14 957 7 110 55	14,867 35 669 99 259	15,425 232 232 14 13 10 10 10 10 10 10 10 10 10 10 10 10 10
Pennsylvania-Reading Seashore Lines. Dec.	Dec. 12 mos. ines. Dec. 12 mos.	10,083 358 364	53,004 787,465 602 7,699	12,445 142,0971 90 2,097	73,875 .034,3951 .714 10,135	90,837 ,028,750 809 10,149	12,777 141,593 646 3,167	9,628 128,795 277 2,614	3,461 18,853 354 729	17.791 239,368 102 1,268	25,904 236,397 93 1,175	2,887 222 235 235	1.116	27,543 432,396 8 539 6,577	75,410 861,523 8 1,326 11,589	865.886 979 11.275	83.6 85.7 114.3	88.2 84.2 121.0	1,535 Cr 169,872 7 -612 -1,454	Cr3,421 70,312 149 1,437	839 74,796 933 4,683	2.020 74.930 441 4.167

More Elbow Room for the ACL



Pair of INTERNATIONAL TD-18As power expansion of Atlantic Coast Line's Smith Creek Yard

When the Atlantic Coast Line needed more room for spur and storage tracks at its Smith Creek Yard at Wilmington, North Carolina, two INTERNATIONAL TD-18A crawlers did all the ground work.

A foreman, who also operates one of the crawlers, puts it this way:

"We work in all types of soil in this railroad construction and the TD-18A is one of the best crawlers for moving dirt fast. We've worked in sand for eleven months straight and we've had very low maintenance."

This story is repeated the country over. INTERNATIONAL crawlers deliver maximum power at minimum operating cost—day in, day out—on any kind of ground.

These rugged red crawlers will give you the same top performance. See them in action. All you have to do is ask your nearby INTERNATIONAL Industrial Distributor for a demonstration—on your own job—of "power that pays." INTERNATIONAL HARVESTER COMPANY, CHICAGO 1, ILLINOIS

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For everything in Earthmoving

ON TRACKS ... ON RUBBER

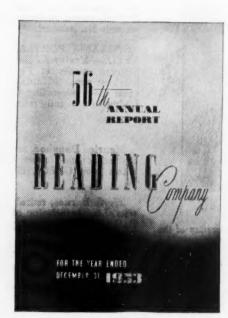
See INTERNATIONAL'S
Complete Earthmoving Line

REVENUES AND EXPENSES OF RAILWAYS

(Dollar figures are stated in themseld; i.e., with last state drifts without

MONTH OF DECEMBER AND TWELVE MONTHS OF CALENDAR YEAR 1953

		Aven up.					Maint. W.	ay and St	ruotuera	Maint		19										
Name of Road Fittsburgh & Shawmut Fittsburgh & West Vrginia Reading	Dec. 12 mos. 12 mos. 12 mos. 12 mos.	mulcage operated during period 97 97 97 132 132 1,302	Preig 19 2.42 5.72 8.72 8.73	-Operating R	Revenues 1953 197 2.432 579 8.984 110.174	1952 1952 181 2,238 699 8,510 11,742	Total 1953 53 571 94 1,525 1,657 20,247	Total 1952 23 430 127 1,443 1,735 19,581	Part 1 283 283 283 2.637	Total 1953 59 649 83 2.002 2.379 2.7.221	1962 1952 1953 193 2,066 2,369 25,784	11 12 × 2 ± 5 1.	744 44 44 1729 1.855	Creation 64 638 161 2.148 4.156 16 161 161 161 161 161 161 161 161 1	Total 1953 2,026 460 6,845 8,815 03,257	Total 1952 192 1,857 594 6,680 9,438	Operating 1963 195.8 1963 195.8 99.1 105.8 83.3 83.1 76.5 85.1 76.5 86.4 77.7 77.7	[0]	Net from railway open-ation 2 C 406 1199 2,139 C 2,569 C 25,569	Railway n accruals Cr 25 55 12 940 Cr 20 12.742	Net reil operating the 1953 77 711 120 1.452 1.186 16.894	25 601 202 1,399 1,348
Richmond, Frederickshurg & PotenmacDec 12 mos Rutland Sacramento Northern 12 mos Sacramento Northern	12 mos. 12 mos. 12 mos. 12 mos. 12 mos.	302 374 265 265 265	11.291 4.3555 4.2455	574 6,550 102	2,266 27,497 421 5,069 164 4,334	2.380 28.153 447 5.659 3.444	346 4,515 223 1,072 95 811	299 4,081 84 942 93 301	300 37 88 12 13	313 3,606 61 745 14 224	3,622 80 958 115	07.7. 12.1. 164. 88	25 25 25 25 25 25 25 25 25 25 25 25 25 2	8,639 161 2,246 1,079	1,539 18,744 503 4,655 2,274	1.462 18.096 414 5.206 2.236	67.6 68.2 119.5 91.8 52.5	61.4 92.5 92.0 59.4 64.7	8,753 8,753 414 414 2,061	4.186 4.186 7. 305 7. 36	3,174 1,100 1,100	3.08 2.08 2.08 2.08 2.08 2.08 3.08 3.08 3.08 3.08 3.08 3.08 3.08 3
St. Louis San Francisco St. Louis Sen Francisco & Texas St. Louis Southwestern Lines	12 mos. 12 mos. 12 mos. 12 mos. 12 mos.	4,601 4,601 159 1,561 1,565	9,945 114,261 288 4,719 5,347 69,935	5,757 6,9 69 29 288	11,379 129,965 317 5,055 5,563 72,643	12,025 129,264 506 5,514 6,536 73,590	1.328 19.458 2 661 1.808 13.466	1,691 20,143 70 621 779 8,998	2,059 2,059 54 432 2,064	20,839 30 437 1,044 8,961	1,524 20,856 37 442 719 7,743	5,747 113 105 1,255	365 4,115 25 302 189 2,070	4,093 46,289 178 1,929 1,612 19,758	7,923 96,985 248 3,468 4,966 46,467	8,042 96,158 356 3,366 3,473 41,009	690- 1-4-6 68-6 64-5 64-5 64-0	553.1 5.1.0 5.1.0 5.3.1 5.3.1	3.457 32.980 69 1.587 697 0.70 26,176	1,485 Cr. 70 548 Cr3,462 8,956	1.654 5.216 23 396 3.881 3.863	2.346 17,376 41 716 1,617
Southern Alah ma Great Southern	Dec. 12 mos. 12 mos. 12 mos.	4,078 4,080 6,286 6,296 326 326	10.650 130.067 18.458 236.557 1.260	1,190 13,774 1,547 17,421 80	13,409 156,644 22,853 275,212 1,576 19,862	14.427 160.584 24.955 271.624 1.859 19.738	24,350 24,350 1,791 35,878 2,904	3,934 25,422 1,453 34,482 76 2,720	358 2.491 719 4.320 129 520	27.850 3.797 49.066 4.052	2.397 28,995 3,905 48,573 4,457	6.193 6.193 9.376 64 844	366 4,443 425 5,110 410	4,324 49,821 6,968 84,356 5,785	9,873 12,836 14,364 86,400 1,096 14,020	11.824 16.886 14.419 88.102 1.149	73.6 622.9 67.7 70.6	82.0 57.8 69.3 61.8	3,536 43,808 8,490 88,813 480 5,841	1.044 3.901 2.952 2.472	2.168 23.829 4.367 11.986 253 3.005	23,041 4,787 36,377 2,058
Cinn., New Orleans & Texas Pacific Dec Georgi Southern & Florida Dec New Orleans & Northeastern Dec 12 mass	Pacific Dec. 12 mos. 12 mos. 12 mos. 12 mos.	337 397 397 203 203	2.933 62.173 6.170 7.96 12.199	2,116 72 843 51 51 594	3,556 46,845 834 9,917 1,014 13,630	4,468 45,598 844 9,197 1,261 12,621	2.533 7.424 1.854 60 1.770	5.066 1.641 1.699	2,327 2,725 18 130 63 265	9,542 124 921 1,524	764 10,057 60 823 131 1,518	2,067 2,067 83 29 304	863 863 94 19 232	978 319 3,003 2,786	4,469 30,974 513 6,291 412 6,914	29,290 257 5,566 448 6,778	125.7 66.1 63.4 40.6 50.7	45.8 64.2 30.5 35.6 53.7	15.872 322 3.626 6.716	7 195 9,750 854 854 3,732	678 7,008 41 683 2,544	6,961 138 908 193 1,801
Southern Pacific. Texas & New Orleans. Spokare International.	Dec. 12 mos. 12 mos. 12 mos. 12 mos.	8,119 8,114 4,290 4,290 152 152	34.260 469,740 10,082 129,008 3,185	3,106 38,697 638 7,386 11	41,033 546,127 11,708 145,958 3,357	45,593 551,859 13,022 148,500 201 2,897	65,838 1,928 24,151 645	5,370 62,562 22,262 22,938 677	5.775 1 230 1,890	9,180 113,660 1,649 19,723 278	9.901 110,726 1,634 20,291 26 267	1,882 21,102 86 1,038 10 105	867 276 3,298 66	17.467 207.676 4.005 49.777 827	35,759 122,014 4 8,449 103,928 1 106 1.955	36,090 114,586 9,628 05,364 1,929	58.2	79.2 73.9 71.0 66.7 66.7	5.274 24,113 3.259 42,031 1,402	2,265 60,942 1,158 17,976 478	2,207 17,106 1,076 12,214 43 655	5,106 58,096 1,259 13,587 36
Spokene, Portland & Seutle Tennessee Central. Texas & Northern	Dec. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos.	944 944 286 286	1,897	1,034	2.162 31,009 416 5,159	2,277 30,922 5 495	319 4,572 97 1,103	325 4.869 103 1,116	530	312 4,196 77 823	3,924	1,179 22 258	361	9,763 143 1,689	1,595 20,013 354 4,042	1,672 19,885 362 4,057	73.8	73.4	567 10,996 62 1,118	Cr 40 3,434 Cr 36	313 5,900 55 420	153 5,805 496
Texas & Pacific Texas Mexican Toledo, Peoria & Western	Dec 12 mos. 12 mos. 12 mos. 12 mos.	1,829 1,833 1,833 161 161 239 239	75,757 75,646 3,264 3,264 7,663	4,316	6,787 86,485 307 3,439 575 7,804	7,704 83,626 287 3,530 707 7,118	1,132 12,774 51 658 69 1,251	840 11.232 47 801 1.229	1,461 7,7 75 10 81	13,395 13,395 32 381 88	1,087 13,398 35 399 497	2,900 10 102 11 11	2.341 1113 60 608	26.896 63 755 1.652	59,568 172 2,151 429 4,754	4,750 56,704 205 2,360 406 4,290	75.25 56.25 74.7 60.9	61.7 71.5 66.8 57.4 60.3	1,683 26,917 134 1,288 146 3,050	9,787 73 619 1,432	966 12,531 38 382 49 49	1,597 13,328 359 871
Union Pacific. Utah. Virginian.	Dec 12 mos. 12 mos. 12 mos. 12 mos.	9.823 9.823 110 110 611 611	35.399 453.790 1,329 2,828 36,813	2,996	41,961 530,024 1,332 2,914 37,917	49,021 520,221 206 1,567 3,581 44,055	5,566 72,091 7 222 562 5,663	6.418 73,697 16 271 325 5,426	508 5,786 22 23 63 703	8,894 100,179 37 473 633 8,895	8,647 93,611 52 546 772 10,179	14,965 14,965 109 188 2,188	11,116 11,743 1 9 48 48 552	16.590 189,579 42 439 813 9,657	34.428 400.427 94 1.240 2.129 25.846	36,031 389,840 145 1,591 2,082 27,541	82.0 75.5 65.3 93.1 73.1 68.2	73.5 74.9 70.1 101.5 58.1 62.5	7,533 129,597 50 50 785 12,071	5.971 77,636 107 350 7,758	28 860 28 860 76 76 7374	4,343 32,761 53 10 780 8,493
Wabash. Ann Arbor. Western Maryland	Dec. 12 mos. 12 mos. 12 mos. 12 mos. 12 mos.	2,393 2,393 294 294 857 872	8 8.281 107,718 689 4 9,231 3,582 48,011	5,118 1,17 1,7 6,7	9,710 122,210 698 9,443 3,807 50,754	115.885 115.885 7,628 4,453 4,7,740	943 15,199 62 1,181 942 6,900	1,054 14,852 1,170 5,751	1,605 1,605 114 446 983	15,809 15,809 158 1,560 752 8,902	15,243 15,243 171 1,441 784 9,503	154 4.219 30 360 211 2.321	3.666 31 336 105 1,129	49,417 331 3,875 1,203 14,441	6,955 88,784 606 7,211 3,433 33,906	7.033 84.701 561 6.400 3.046 33.661	71.6 72.6 86.8 76.4 90.2 66.8	69.1 73.1 70.6 83.9 68.4 70.5	33,426 92 2,232 3,74 16,848	1,077 12,958 Cr 21 917 96 9,032	1,148 13,504 68 980 457 10,445	2,284 13,617 312 833 831 8,658
Western Pacific	Dec. 12 mos. 12 mos.	1.193 1.193 1.041 1.045	3,917 54,938 1,969 29,465	2,975 39 518	4,162 59,245 2,157 31,873	5,000 56,245 2,589 31,205	9,789 570 4,827	797 9,594 411 4,416	1,096 45 442	8,077 456 5,453	7,802 444 5,168	160 1.716 75 842	2,348 67 848	1,426 16,641 1,004 12,497	3,491 39,982 2,265 24,909	3,446 38,797 2,133 24,567	83.9 67.5 105.0 78.2	68.9 69.0 82.4 78.7	19,263 109 6,964	9.258 Cr 158	392 8,526 70 2,842	638 7.102 162 2,708



SOURCES OF OPERATING DOLLAR

	1953	1952
Anthracite	13.1ϕ	16.2ϕ
Bituminous Coal	20.4	20.4
Merchandise	55.2	51.9
Passenger	5.3	5.3
All Other	6.0	6.2
Total	100.0	100.0

READING COMPANY

reports

HIGHLIGHTS

for 1953

Completing the first full year of operation under increased freight rates, the Company's gross revenues were \$132,825,609. Earnings per common share were \$6.92 compared with \$6.34 in 1952.

Despite increases in expenses, the ratio of transportation expenses to operating revenues was reduced from 38.05% in 1952 to 36.89%.

Acquisition of 51 new general-purpose dieselelectric locomotives increased diesel operation to 99% by year-end.

The Catawissa Railroad Company was merged into Reading Company, increasing to 865 the miles of road on which the Company's general mortgage securing Series D Bonds is a first lien.

More than half of Reading's revenue is derived from merchandise traffic.

Dividends of \$2.00 per share were paid on both the Preferred and Common Stocks, making the 48th consecutive year in which dividends have been paid on all classes of stock.

> Sa Desher President

READING COMPANY

READING TERMINAL · PHILADELPHIA 7, PA.

Railway Officers

CHICAGO & WESTERN IN-DIANA — BELT RAILWAY OF CHICAGO. — Franklin C. Gagen, general attorney at Chicago, has been appointed general solicitor there.

CHICAGO GREAT WESTERN.
—William Blocker and David W.
Quick, assistant general freight agents at Chicago and Omaha, have been appointed, respectively, general freight agents at Chicago and at Minneapolis-St. Paul.

CANADIAN NATIONAL.—Maynard A. Metcalf, vice-president and executive assistant to president, has



Douglas L. Grant

been appointed vice-president of traffic at Montreal, succeeding John Pullen, who has retired after more than 41 years of service. James A. Argo, assistant vice-president of traffic for Canadian Lines, has been appointed deputy vice-president of traffic for the system.



James A. Argo

Douglas I. Grant, secretary of the company, has been named executive assistant to president. Robert H. Tarr, assistant secretary, succeeds Mr. Grant as secretary.

SANTA FE.—M. M. Killen, who has been on leave of absence, has resumed his former position as superintendent at Newton, Kan., succeeding J. H. Blake, who, as acting superintendent, moves to Arkansas City, Kan., to replace H. C. Willis, who has been granted leave of absence.

George L. Davenport, Jr., hydraulic engineer at Los Angeles, has been promoted to assistant to chief engineer at that point.

SOO LINE.-A. G. Greenseth, general mechanical superintendent at

Minneapolis, has retired. Named to succeed him is C. F. Guggisberg, mechanical superintendent at that point, who in turn has been replaced by D. L. Borchert, assistant mechanical superintendent there. E. R. Henkel, general mechanical inspector, succeeds Mr. Borchert.

SPOKANE, PORTLAND & SE-ATTLE.—Harley K. Hallgren, traffic representative at Portland. Ore., has been appointed district passenger agent there, succeeding Clarence J. Livingston, recently retired.

OBITUARY

Maurice Donahoe, retired division engineer of the former Chicago & Alton (now GM&O), died February 14

W. C. Barnes, retired engineer of tests of the Association of American Railroads, died February 21 at St. Petersburg, Fla.

William C. Bower, 75, who retired in January 1947 as vice-president, purchases and stores, of the New York Central, died February 17, of a heart attack, in Rochester, N.Y.

J. O. McIlyar, freight traffic manager for sales and service of the Milwaukee, at Chicago, died recently.

J. E. Quinn, 67, auditor disbursements of the Florida East Coast at St. Augustine, died February 18 after a brief illness.

J. D. McCartney, 73, assistant to president of the Central of Georgia at Savannah, died February 20.

ADVERTISERS IN THIS ISSUE

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General Electric Co	Westingho Agency

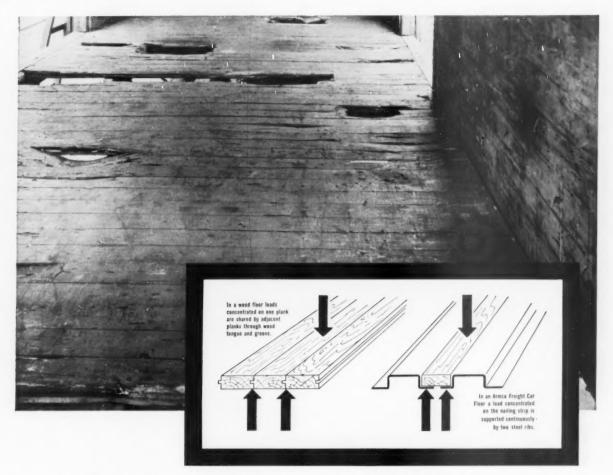
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TUBING—boiler & mechanical, seam-less & welded STAINLESS—Allegheny plates, sheets, bars, lubes



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In Armco Freight Car Flooring, stout hat-section steel ribs take the load and support heavy wood nailing strips. That's why, even without extra stringer support, Armco Freight Car Flooring resists the heavy concentrated loads of lift trucks that often break through conventional car flooring. Besides, the ribs are welded to the car underframe and reinforce it.

For Gondola and Flat Cars, too

Armco Freight Car Flooring is made for gondola, box and flat cars. It is designed both for new construction and for replacement of worn-out wood or steel-plate floors in existing cars.

A Multi-Purpose Floor

The Armco floor will handle bulk- or unit-lading equally well. This eliminates the problem of selecting a car by floor type. It saves time and money for both the railroad and the shipper in switching empty cars. This is of special importance in the case of gondola cars. The same car that brings bulk loads into a plant can carry away the manufactured product.

Armco Freight Car Flooring is made for fastening bracing and skids in the proper way—with nails. There's no invitation to weld fasteners to plate floors or burn holes for bolts,

Send for Booklet

There's a new booklet about "Armco Freight Car Flooring." We'll send you a copy if you'll fill out the coupon below and mail it to us.

ARMCO STEEL CORPORATION

1804 Curtis Street, Middletown, Ohio Export: The Armco International Corporation



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G-R-S CLASSIFICATION SYSTEMS

SAVE TOWERS

G-R-S automatic switching gives push-button track selection, enables one operator to handle largest yard.

This tower controls a 58-track yard



SAVE TIME

Automatic switching reduces errors, G-R-S automatic retarder control minimizes trimming. Classification time is saved by both.

Classification route is set by pushing a button >



OPERATE DEPENDABLY

G-R-S all-electric car retarders operate in any weather, need power only to change position, use only about 8 kwh. per 100 cars—now available with electronic control which automatically releases cars from retarders at speeds for proper coupling.

Retarder shoes grip wheels to control car speed

Ask your G-R-S district office how these car classification systems can be applied to your needs.



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